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Water Resources Data for Georgia, Water Year 1982

(U.S.) Geological Survey, Doraville, GA

Jun 83

U.S. Department of Commerce
National Technical Information Service
NTIS

PB84-128412

Water Resources Data Georgia
Water Year 1982

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT GA-82-1
Prepared in cooperation with the State of Georgia
and with other agencies

REPRODUCED BY
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INFORMATION SERVICE
U.S. DEPARTMENT OF COMMERCE
SPRINGFIELD, VA. 22161

CALENDAR FOR WATER YEAR 1982

1981

OCTOBER

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U.S. DEPARTMENT OF THE INTERIOR
March 3, 1849

1776

Water Resources Data Georgia

Water Year 1982

by W.R. Stokes, III, T.W. Hale, J.L. Pearman, and G.R. Buell

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT GA-82-1
Prepared in cooperation with the State of Georgia
and with other agencies

UNITED STATES DEPARTMENT OF THE INTERIOR

JAMES G. WATT, Secretary

GEOLOGICAL SURVEY

Dallas L. Peck, Director

For information on the water program in Georgia write to
District Chief, Water Resources Division
U.S. Geological Survey
6481 Peachtree Industrial Boulevard, Suite B
Doraville, Georgia 30360

1983

PREFACE

This volume of the annual hydrologic data report of Georgia is one of a series of annual reports that document hydrologic data gathered from the U.S. Geological Survey's surface- and ground-water data-collection networks in each State, Puerto Rico, and the Trust Territories. These records of streamflow, ground-water levels, and quality of water provide the hydrologic information needed by State, local, and Federal agencies, and the private sector for developing and managing our Nation's land and water resources. Hydrologic data for Georgia are contained in 1 volume.

This report is the culmination of a concerted effort by dedicated personnel of the U.S. Geological Survey who collected, compiled, analyzed, verified, and organized the data, and who typed, edited, and assembled the report. In addition to the authors, who had primary responsibility for assuring that the information contained herein is accurate, complete, and adheres to Geological Survey policy and established guidelines, the following individuals contributed significantly to the collection, processing, and tabulation of the data:

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Water resources data for the 1982 water year for Georgia consists of records of stage, discharge, and water quality of streams; stage and contents of lakes and reservoirs; and ground-water levels. This report contains discharge records of 109 gaging stations; stage for 10 gaging stations; stage and contents for 17 lakes and reservoirs; water quality for 17 continuous stations, 115 periodic stations and miscellaneous sites; peak stage and discharge only for 109 crest-stage partial-record stations and 20 miscellaneous sites; measurements of discharge at 49 low-flow partial-record stations and 15 miscellaneous sites; and water levels of 28 observation wells. These data represent that part of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Georgia.

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GAGING STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED

[Letters after station names designate type of data: (d) discharge, (g) gage height, (c) chemical, (m) microbiological, (t) water temperature, (s) sediment]

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INTRODUCTION

Water resources data for the 1982 water year for Georgia consists of records of stage, discharge, and water quality of streams; stage and contents of lakes and reservoirs; and ground-water levels. This report contains discharge records for 109 gaging stations; stage for 10 gaging stations; stage and contents for 17 lakes and reservoirs; water quality for 17 continuous stations, 115 periodic stations and miscellaneous sites; peak stage and discharge only for 109 crest-stage partial-record stations and 20 miscellaneous sites; measurements of discharge at 49 low-flow partial-record stations and 15 miscellaneous sites; and water levels of 28 observation wells. These data represent that part of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Georgia.

Records of discharge and stage of streams, and contents or stage of lakes and reservoirs were first published in a series of U.S. Geological Survey water-supply papers entitled, "Surface-Water Supply of the United States." Through September 30, 1960, these water-supply papers were in an annual series and then in a 5-year series for 1961-65 and 1966-70. Records of chemical quality, water temperatures, and suspended sediment were published from 1941 to 1970 in an annual series of water-supply papers entitled, "Quality of Surface Waters of the United States." Records of ground-water levels were published from 1935 to 1974 in a series of water-supply papers entitled, "Ground-Water Levels in the United States." Water-supply papers may be consulted in the libraries of the principal cities in the United States or may be purchased from Branch of Distribution, U.S. Geological Survey, 1200 South Eads Street, Arlington, VA 22202.

For water years 1961 through 1970, streamflow data were released by the Geological Survey in annual reports on a State-boundary basis. Water-quality records for water years 1964 through 1970 were similarly released either in separate reports or in conjunction with streamflow records.

Beginning with the 1971 water year, water data for streamflow, water quality, and ground water are published in official Survey reports on a State-boundary basis. These official Survey reports carry an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this volume is identified as "U.S. Geological Survey Water-Data Report GA-82-1." These water-data reports are for sale, in paper copy or in microfiche by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

Additional information, including current prices, for ordering specific reports may be obtained from the District Chief at the address given on the back of the title page or by telephone (404) 221-4858.

COOPERATION

The U.S. Geological Survey and organizations of the State of Georgia have had cooperative agreements for the systematic collection of streamflow records since 1896, and for water-quality records since 1937. Organizations that supplied data are acknowledged in station descriptions. Organizations that assisted in collecting data through cooperative agreement with the Survey are:

Georgia Department of Natural Resources, Joe D. Tanner, Commissioner, through the Division of Environmental Protection, J. Leonard Ledbetter, Director.
Georgia Department of Transportation, Thomas D. Moreland, Commissioner.

Assistance in the form of funds and/or services was given by the following Federal agencies:

Corps of Engineers, U.S. Army
Environmental Protection Agency
Federal Highway Administration, U.S. Department of Transportation
Tennessee Valley Authority
National Weather Service, NOAA, U.S. Department of Commerce

The following organizations aided in collecting records:

Georgia Power Company
Alabama Power Company
Crisp County Power Commission
Bibb County
Chatham County
Glynn County
Columbus
Albany Water, Gas and Light Commission
Clayton County Water Authority
Macon-Bibb County Water & Sewerage Authority
City of Brunswick
City of Covington
City of Valdosta

HYDROLOGIC CONDITIONS

Streamflow

Annual runoff for the water year was slightly below normal throughout the State except northwest Georgia, where runoff was slightly above normal and extreme southeast Georgia, where runoff was well below normal. The ratio of 1982 water-year runoff to long-term average runoff for unregulated streams having more than 5 years of streamflow record ranged from about 1.2 at Heath Creek near Rome to 0.3 at Suwannee River at Fargo.

Monthly mean runoff in the northern and central parts of the State was above normal in January and February and below normal for the remainder of the year. In the southern part, monthly mean runoff was well below normal in October, November, and December, slightly below normal in March, April, and September, and above normal for the remainder of the year.

Streamflows were very low across the State as the water year began. The drought that began during the 1980 water year persisted into November in the northern and central parts of the State and into December in the southern part. In general, the lowest flows experienced during the entire drought occurred in October 1981. Many streams that were not significantly affected by flow augmentation or withdrawal experienced daily minimum flows equivalent to 15- to 25-year recurrence intervals except in northwest and extreme south Georgia, where 2- to 5-year recurrence intervals were more typical. The Flint River from central to southwest Georgia was the most severely affected major stream. The Flint River at Montezuma experienced the lowest daily flow of its 60-year period of operation on October 5. This drought is the subject of a report being prepared by the U.S. Geological Survey.

Major reservoirs in the State began the year well below normal pool and continued to recede for several months into the 1982 water year. Lake Sidney Lanier, a large multi-purpose reservoir on the Chattahoochee River, fell to a pool elevation of 1,052.7 feet on Dec. 23, which was 4.8 feet below its previous minimum of record. Reservoirs were near normal pool at the end of the water year.

Two significant floods occurred in the State during the 1982 water year. Flooding was produced in North Georgia on February 3-4 by a frontal storm moving to the northeast. This storm covered a narrow band about 50 miles wide, just north of the Chattahoochee River and extended from the Georgia-Alabama State line to the Dawsonville, Ga., vicinity. The rainfall total varied from about 4 to 7 inches over the 24-hour period beginning at 8 a.m. on February 2, with the heaviest rainfall occurring in the vicinity of Austell and Carrollton. The resulting floods on several streams in the affected area reached peak discharges of 30- to 60-year recurrence intervals.

A very destructive flood occurred in the extreme northwestern corner of the State on August 17. Based on rainfall information from the National Weather Service, Tennessee Valley Authority, and local residents, the rainfall varied from about 8 to 13 inches, with the heaviest rainfall occurring between 3 and 7 a.m. on August 17. Floods on several small streams reached peak discharges in excess of 100-year recurrence intervals. Pope Creek at Interstate Highway 24 near Wildwood, a 5.0 square mile basin, experienced a peak discharge of 11,900 cubic feet per second, or about 2,380 cubic feet per second per square mile.

Figure 1 shows monthly and yearly streamflows for the 1982 water year at three representative long-term gaging stations and the average monthly and yearly streamflows for the period 1951-80.

Water Quality

The chemical quality of surface water in Georgia during the 1982 water year was not appreciably different from that of recent years. This assessment is based upon a comparison of mean values of selected water-quality parameters sampled during the 1982 water year versus the mean values for the period of record. Thirteen water-quality sampling stations were selected for this comparison and the results are presented in table 1. The statistics presented in table 1 were calculated from water-quality data collected on a periodic basis. No continuous water-quality monitor data were used in the calculations.

The pH, specific conductance, alkalinity, and nutrient concentrations for the 1982 water year were comparable to period-of-record means. Mean specific conductances for the 1982 water year at Altamaha River near Everett City, Satilla River at Atkinson, and Suwannee River at Fargo were 11 to 37 percent higher than the period-of-record means. The 1982 mean annual streamflows for these stations were below normal as indicated by higher conductances. The low pH values for Satilla River at Atkinson and Suwannee River at Fargo are typical of streams draining swamps and bogs.

Pesticide residues were not detected in water samples taken at Savannah River near Clyo, Falling Creek near Juliette, Atltamaha River near Everett City, and St. Marys River near Macclenny, Florida. Trace metal concentrations measured in water samples collected at five National Stream Quality Accounty Network (NASQAN) stations and one Hyrologic Benchmark station were less than the critical levels permitted for various beneficial uses.

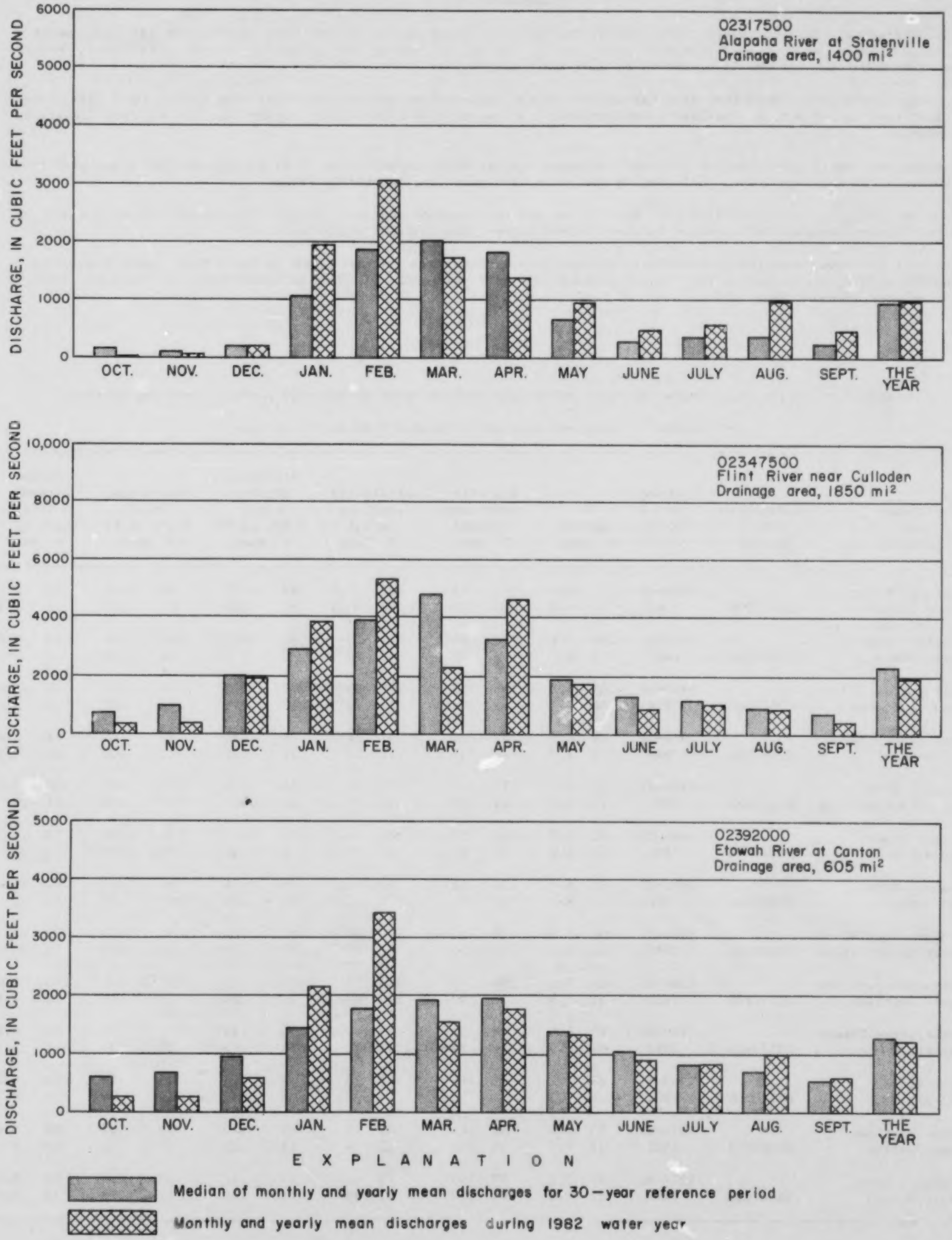

Figure 1.—Comparison of discharge at three representative long-term gaging stations during 1982 water year with median discharge for 30-year reference period.

Ground Water

Ground-water levels continued to decline during the first three months of the 1982 water year and were about 1 foot below previous daily record lows throughout much of the State. During the remainder of the water year, levels ranged from about the same as last year to as much as 15 feet higher.

Water levels in the principal artesian aquifer in the southwestern part of the State were from 2 to 7 feet lower than last year during October, November, and December, but ranged from 2 to 15 feet higher than in 1981 from January to September.

Along the coast, levels in the principal artesian aquifer were slightly lower than during the 1981 water year from October to April and from 1 foot to 15 feet higher than last year from May to September.

Water levels in the crystalline rock area in the northern part of the State ranged from about 3 feet lower than last year during November and December to about 3 feet higher than in 1981 during May.

More information concerning water-level fluctuations in the State can be found in open-file reports entitled, "Ground-Water Data for Georgia, 1981," which includes calendar year 1981, and "Ground-Water Data for Georgia, 1982," which includes calendar year 1982.

Table 1.--Water-quality characteristics of Georgia surface water at selected periodic sampling stations

[N, number of samples; mean pH calculated from antilogarithms]

Stream and location	Downstream order number	Sample period (water) years)	pH (units)		Specific conductance (umhos)		Alkalinity (mg/L as $CaCO_3$)		Nitrogen, NO_2+NO_3 total (mg/L as N)		Phosphorus, total (mg/L as P)		Carbon, organic total (mg/L as C)	
			N	Mean	N	Mean	N	Mean	N	Mean	N	Mean	N	Mean
Chattooga River		1968-82	125	6.6	113	13	102	5.2	89	0.03	88	0.03	86	2.0
near Clayton	02177000	1982	12	6.8	12	13	12	5.5	12	.03	12	.03	12	1.5
Ogeechee River		1974-82	134	6.4	125	74	111	23	94	.10	100	.05	55	8.8
near Eden	02202500	1982	6	6.7	6	78	5	28	0	---	6	.07	0	---
Falling Creek		1968-82	165	6.7	163	116	149	50	77	.06	78	.10	30	3.6
near Juliette	02212600	1982	12	7.3	12	119	12	49	12	.11	12	.05	9	3.8
North Oconee River		1974-82	89	6.9	89	54	77	21	89	.32	89	.05	88	2.8
at Athens	02217740	1982	12	7.0	12	57	12	21	12	.34	12	.05	12	2.3
Altamaha River		1970-82	118	6.7	119	116	107	27	111	.25	117	.08	100	8.6
near Everett City	02226160	1982	19	6.9	19	129	18	29	12	.21	17	.08	11	10
Satilla River		1968-82	141	4.8	133	55	120	4.2	105	.10	110	.09	79	18
at Atkinson	02228000	1982	11	4.6	11	67	10	5.1	6	.05	11	.08	4	25
Suwannee River		1968-82	124	4.1	110	52	58	1.2	86	.04	87	.03	84	35
at Fargo	02314500	1982	12	4.1	12	71	8	1.3	12	.03	12	.03	12	46
Withlacoochee River		1974-82	91	6.3	90	120	77	39	91	.28	91	.17	90	11
near Clyattsville	02318960	1982	12	6.4	12	116	12	32	12	.27	12	.15	12	16
Chattahoochee River		1968-82	264	6.5	296	79	108	20	282	.55	282	.46	263	6.0
near Fairburn	02337170	1982	12	6.8	12	90	12	20	12	.84	12	.41	12	4.4
Kinchafoonee Creek		1969-82	65	6.4	58	33	59	9.2	54	.15	55	.03	53	4.4
at Preston	02350600	1982	11	6.3	11	34	11	11	11	.09	11	.03	11	5.3
Flint River		1968-82	87	7.1	72	68	68	23	49	.26	49	.12	44	4.5
at Albany	02352500	1982	4	7.0	4	93	4	27	4	.36	4	.04	4	4.3
Conasauga River		1974-82	93	7.4	92	103	80	47	91	.20	90	.05	89	3.1
near Dalton	02384748	1982	12	7.4	12	100	12	44	12	.22	12	.06	10	4.6
Conasauga River		1974-82	90	7.3	89	165	78	61	89	.49	89	.53	88	6.0
near Resaca	02387050	1982	12	7.3	12	159	12	59	12	.69	12	.73	10	5.0

DEFINITION OF TERMS

Terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are defined below. See also the table for converting English units to International System of units (SI) on the inside of the back cover.

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.

Alkalinity is the quantitative capacity of water to react with a strong acid to a designated pH. The designated pH for alkalinity values presented in this report is 4.5.

Aquifer is a geologic formation, group of formations, or part of a formation that contains sufficient saturated permeable material to yield significant quantities of water to wells and springs.

Artesian means confined and is used to describe a well in which the water level stands above the top of the aquifer tapped by the well. A flowing artesian well is one in which the water level is above the land surface.

Bacteria are microscopic unicellular organisms, typically spherical, rodlike, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, other perform an essential role in nature in the recycling of materials; for example, by decomposing organic matter into a form available for reuse by plants.

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria which ferment lactose with gas formation within 48 hours at 35°C. In the laboratory these bacteria are defined as the organisms which produce colonies within 24 hours when incubated at 35°C ± 1.0°C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal coliform bacteria are bacteria that are present in the intestines or feces of warm-blooded animals. They are often used as indicators of the sanitary quality of the water. In the laboratory they are defined as all organisms which produce blue colonies within 24 hours when incubated at 44.5°C ± 0.2°C on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal streptococcal bacteria are bacteria found also in intestines of warm-blooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria which are capable of growth in brain-heart infusion broth. In the laboratory they are defined as all the organisms which produce red or pink colonies within 48 hours at 35°C ± 1.0°C on M-enterrococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Bed material is the unconsolidated material of which a streambed, lake, pond, reservoir, or estuary bottom is composed.

Biochemical oxygen demand (BOD) is a measure of the quantity of dissolved oxygen, in milligrams per liter, necessary for the decomposition of organic matter by micro-organisms, such as bacteria.

Biomass is the amount of living matter present at any given time, expressed as the mass per unit area or volume of habitat.

Ash mass is the mass or amount of residue present after the residue from the dry mass determination has been ashed in a muffle furnace at a temperature of 500°C for 1 hour. The ash mass values of zooplankton and phytoplankton are expressed in grams per cubic meter (g/m), and periphyton and benthic organisms in grams per square meter (g/m).

Dry mass refers to the mass of residue present after drying in an oven at 60°C for zooplankton and 105°C for periphyton, until the mass remains unchanged. This mass represents the total organic matter, ash and sediment, in the sample. Dry mass values are expressed in the same units as ash mass.

Organic mass or volatile mass of the living substance is the difference between dry mass and ash mass, and represents the actual mass of the living matter. The organic mass is expressed in the same units as for ash mass and dry mass.

Wet mass is the mass of living matter plus contained water.

Bottom material: See Bed material.

Cells/volume refers to the number of cells of any organisms which is counted by using a microscope and grid or counting cell. Many plankton organisms are multicelled and are counted according to the number of contained cells per sample, usually milliliters (mL) or liters (L).

Cfs-day is the volume of water represented by flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, about 646,000 gallons or 2,447 cubic meters.

Chemical oxygen demand (COD) is a measure of the chemically oxidizable material in the water, and furnishes an approximation of the amount of organic and reducing material present. The determined value may correlate with natural water color or with carbonaceous organic pollution from sewage or industrial wastes.

Chlorophyll refers to the green pigments of plants. Chlorophyll a and b are the two most common pigments in plants.

Color unit is produced by one milligram per liter of platinum in the form of the chloroplatinate ion. Color is expressed in units of the platinum-cobalt scale.

Contents is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

Control structure is a structure on a stream or canal that is used to regulate the flow or stage of the stream or to prevent the intrusion of saltwater.

Cubic feet per second per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

Cubic foot per second (FT^3/s, ft^3/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to approximately 7.48 gallons per second or 448.8 gallons per minute or 0.02832 cubic meters per second.

Discharge is the volume of water (or more broadly, volume of fluid plus suspended sediment) that passes a given point within a given period of time.

Mean discharge (MEAN) is the arithmetic mean of individual daily mean discharges during a specific period.

Instantaneous discharge is the discharge at a particular instant of time.

Dissolved is that material in a representative water sample which passes through a 0.45 um membrane filter. This is a convenient operational definition used by Federal agencies that collect water data. Determinations of "dissolved" constituents are made on subsamples of the filtrate.

Drainage area of a stream at a specific location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the river above the specified point. Figures of drainage area given herein include all closed basins, or noncontribution areas, within the area unless otherwise noted.

Drainage basin is a part of the surface of the earth that is occupied by a drainage system, which consists of a surface stream or a body of impounded surface water together with all tributary surface streams and bodies of impounded surface water.

Gage height (G.H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the more general term "stage," although gage height is more appropriate when used with a reading on a gage.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of hydrologic data are obtained.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate ($CaCO_3$).

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as delineated by the Office of Water Data Coordination on the State Hydrologic Unit Maps; each hydrologic unit is identified by an 8-digit number. The first 2 digits represent the region, the second 2 digits represent the planning subregion, the third 2 digits represent the accounting unit, and the last 2 digits represent the cataloging unit. U.S. Geological Survey Circular 878-A explains the hydrologic unit system in detail.

Land-surface datum (lsd) is a reference elevation that is approximately at land surface at a well from which depth or height to water surface is measured.

Micrograms per gram (ug/g) is a unit expressing the concentration of a chemical element as the mass (micrograms) of the element sorbed per unit mass (gram) of sediment.

Micrograms per liter (UG/L, ug/L) is a unit expressing the concentration of chemical constituents in solution as mass (micrograms) of solute per unit volume (liter) of water. One thousand micrograms per liter is equivalent to one milligram per liter.

Milligrams per liter (MG/L, mg/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represent the mass of solute per unit volume (liter) of water. Concentration of suspended sediment also is expressed in mg/L, and is based on the mass of sediment per liter of water-sediment mixture.

National Geodetic Vertical Datum of 1929 (NGVD) is a geodetic datum derived from a general adjustment of the first order level nets of both the United States and Canada. It was formerly called "Sea Level Datum of 1929" or "mean sea level" in this series of reports. Although the datum was derived from the average sea level over a period of many years at 26 tide stations along the Atlantic, Gulf of Mexico, and Pacific Coasts, it does not necessarily represent local mean sea level at any particular place.

Partial-record station is a particular site where limited streamflow and/or water-quality data are collected systematically over a period of years for use in hydrologic analyses.

Particle-size is the diameter, in millimeters (mm), of suspended sediment or bed material determined by either sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

Particle-size classification used in this report agrees with recommendations made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

Classification		
Clay..........	0.00024 - 0.004	Sedimentation
Silt..........	.004 - .062	Sedimentation
Sand..........	.062 - 2.0	Sedimentation or sieve
Gravel........	2.0 - 64.0	Sieve

The particle-size distribution given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic material is removed and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native water analysis.

Pesticides are chemical compounds used to control undesirable plants and animals. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides. Insecticides and herbicides, which control insects and plants, respectively, are the two categories reported.

Picocurie (PC, pCi) is one trillionth (1×10^{-12}) of the amount of radioactivity represented by a curie (Ci). A curie is the amount of radioactivity that yields 3.7×10^{10} radioactive disintegrations per second. A picocurie yields 2.22 dpm (disintegrations per minute).

Plankton is the community of suspended, floating, or weakly swimming organisms that live in the open water of lakes and rivers.

Phytoplankton is the plant part of the plankton. They are usually microscopic and their movement is subject to the water currents. Phytoplankton growth is dependent upon solar radiation and nutrient substances. Because they are able to incorporate as well as release materials to the surrounding water, the phytoplankton have a profound effect upon the quality of the water. They are the primary food producers in the aquatic environment, and are commonly known as algae.

Blue-green algae are a group of phytoplankton organisms having a blue pigment, in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in water.

Diatoms are the unicellular or colonial algae having a siliceous shell. Their concentrations are expressed as number of cells/mL of sample.

Green algae have chlorophyll pigments similar in color to those of higher green plants. Some forms produce algal mats or floating "moss" in lakes. Their concentrations are expressed as number of cells/mL of sample.

Zooplankton is the animal part of the plankton. Zooplankton are capable of extensive movements within the water column, and are often large enough to be seen with the unaided eye. Zooplankton are secondary consumers feeding upon bacteria, phytoplankton, and detritus. Because they are the grazers in the aquatic environment, the zooplankton are a vital part of the aquatic food web. The zooplankton community is dominated by small crustaceans and rotifers.

Recoverable from bottom material is the amount of a given constituent in solution after a representative sample of bottom material has been digested by a method (usually using an acid or mixture of acids) that results in dissolution of only readily soluble substances. Complete dissolution of all bottom material is not achieved by the digestion treatment and thus the determination represents less than the total amount (that is, less than 95 percent) of the constituent in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Runoff in inches (IN, in) shows the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

Sediment is solid material that originates mostly from disintegrated rocks and is transported by, suspended in, or deposited from water; it includes chemical and biochemical precipitates and decomposed organic material such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Suspended sediment is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L).

Suspended-sediment discharge (tons/day) is the rate at which dry weight of sediment passes a section of a stream or is the quantity of sediment, as measured by dry weight or volume, that passes a section in a given time. It is computed by multiplying discharge times mg/L times 0.0027.

Suspended-sediment load is quantity of suspended sediment passing a section in a specified period.

Total sediment discharge (tons/day) is the sum of the suspended-sediment discharge and the bed-load discharge. It is the total quantity of sediment, as measured by dry weight or volume, that passes a section during a given time.

Mean concentration is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour day.

Solute is any substance derived from the atmosphere, vegetation, soil, or rocks that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current. It is expressed in micromhos per centimeter at 25°C. Specific conductance is related to the type and concentration of ions in solution and can be used for approximating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance (in micromhos). This relation is not constant from stream to stream, and it may vary in the same stream with changes in the composition of the water.

Stage-discharge relation is the relation between gage height (stage) and volume of water per unit of time, flowing in a channel.

Streamflow is the discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow or a canal, the word "streamflow" uniquely describes the discharge in a surface stream course. The term "streamflow" is more general than "runoff" as streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Surface area of a lake is that area outlined on the latest U.S. Geological Survey topographic map as the boundary of the lake and measured by a planimeter in acres. In localities not covered by topographic maps, the areas are computed from the best maps available at the time planimetered. All areas shown are those for the stage when the planimetered map was made.

Surficial bed material is that part (0.1 to 0.2 ft) of the bed material that is sampled using U.S. Series Bed-Material Samplers.

Suspended, recoverable is the amount of a given constituent that is in solution after the part of a representative water-suspended sediment sample that is retained on a 0.45 um membrane filter has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all the particulate matter is not achieved by the digestion treatment and thus the determination represents something less than the "total" amount (that is, less than 95 percent of the constituent present in the sample).. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results. Determinations of "suspended, recoverable" constituents are made either by analyzing portions of the material collected on the filter or, more commonly by difference, based on determination of (1) dissolved and (2) total recoverable concentrations of the constituent.

Suspended, total is the total amount of a given constituent in the part of a representative water-suspended sediment sample that is retained on a 0.45 um membrane filter. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to determine when the results should be reported as "suspended, total." Determinations of "suspended, total" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determination of (1) dissolved and (2) total concentrations of the constituent.

Tons per day is the quantity of substance in solution or suspension that passes a stream section during a 24-hour day.

Total is the total amount of a given constituent in a representative water-suspended sediment sample, regardless of the constituent's physical or chemical form. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent present in both the dissolved and suspended phases of the sample. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total." (Note that the word "total" does double duty here, indicating both that the sample consists of a water-suspended sediment mixture and that the analytical method determines all of the constituent in the sample.)

Total in bottom material is the total amount of a given constituent in a representative sample of bottom material. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total in bottom material."

Total, recoverable is the amount of a given constituent that is in solution after a representative water-suspended sediment sample has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all particulate matter is not achieved by the digestion treatment, and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the dissolved and suspended phases of the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

WRD is used as an abbreviation for "Water-Resources Data" in the REVISED RECORDS paragraph to refer to State annual basic-data reports published before 1975.

WSP is used as an abbreviation for "Water-Supply Paper" in reference to previously published reports.

DOWNSTREAM ORDER AND STATION NUMBER

Since October 1, 1950, the order of listing hydrologic-station records in Survey reports is in a downstream direction along the main stream. All stations on a tributary entering upstream from a main-stream station are listed before that station. A station on a tributary that enters between two main-stream stations is listed between them. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary on which a station is situated with respect to the stream to which it is immediately tributary is indicated by an indention in a list of stations in the front of the report. Each indentation represents one rank. This downstream order and system of indentation shows which stations are on tributaries between any two stations and the rank of the tributary on which each station is situated.

As an added means of identification, each surface-water hydrologic station and partial-record station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream-order position in a list made up of both types of stations. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete 8-digit number for each station such as 03041000, which appears just to the left of the station name, includes the 2-digit part number "03" plus the 6-digit downstream order number "041000."

NUMBERING SYSTEM FOR WELLS

Downstream order station numbers are not assigned to wells. The well numbering system of the U.S. Geological Survey is based on the grid system of latitude and longitude. The system provides the geographic location of the well and an unique number for each site. The number consists of 15 digits. The first 6 digits denote the degrees, minutes, and seconds of latitude, the next 7 digits denote degrees, minutes, and seconds of longitude, and the last 2 digits is a sequential number for wells within a 1-second grid. In the event that several wells are within the same 1-second grid, a different sequential number, such as "01", "02", etc., is assigned to each well to insure an unique station number. See figure 2 below.

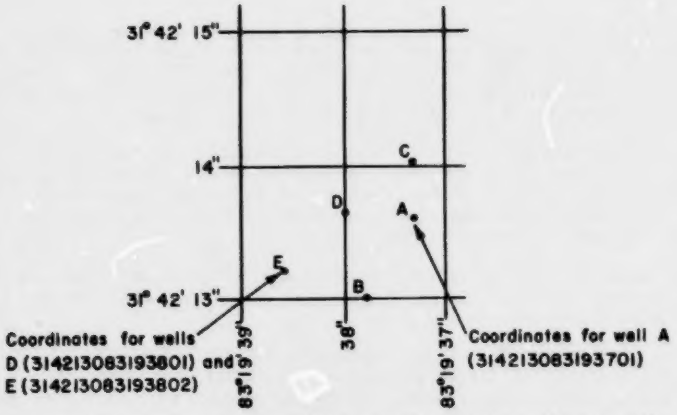

Figure 2.—System for numbering wells (latitude and longitude).

SPECIAL NETWORKS AND PROGRAMS

Hydrologic bench-mark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a bench-mark station may be used to separate effects of natural from manmade changes in other basins which have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped bench-mark basin.

National stream-quality accounting network (NASQAN) is a data collection network designed by the U.S. Geological Survey to meet many of the information demands of agencies or groups involved in national or regional water-quality planning and management. Both accounting and broad-scale monitoring objectives have been incorporated into the network design. Areal configuration of the network is based on river-basin accounting units (identified by 8-digit hydrologic-unit numbers) designated by the Office of Water Data Coordination in consultation with the Water Resources Council. Primary objectives of the network are (1) to depict areal variability of streamflow and water-quality conditions nationwide on a year-by-year basis and (2) to detect and assess long-term changes in streamflow and stream quality.

Pesticide program is a network of regularly sampled water-quality stations where samples are collected to determine the concentration and distribution of pesticides in streams where potential contamination could result from the application of the commonly used insecticides and herbicides. Operation of the network is a Federal interagency activity.

Radiochemical program is a network of regularly sampled water-quality stations where samples are colleted to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

Tritium network is a network of stations which has been established to provide baseline information on the occurrence of tritium in the Nation's surface waters. In addition to the surface-water stations in the network, tritium data area also obtained at a number of precipitation stations. The purpose of the precipitation stations is to provide an estimate sufficient for hydrologic studies of the tritium input to the United States.

EXPLANATION OF STAGE AND WATER-STAGE RECORDS

Collection and computation of data

The base data collected at gaging stations consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and contents of lakes and reservoirs. In addition, observation of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from either direct readings on a nonrecording gage or from a water-stage recorder that gives either a continuous graph of the fluctuations or a tape punched at selected time intervals. Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey. These methods are described in standard textbooks, in Water-Supply Paper 888, and in U.S. Geological Survey Techniques of Water-Resources Investigations, book 3, chapter A6.

For stream-gaging stations, rating tables giving the discharge for any stage are prepared from stage-discharge relation curves. If extensions to the rating curve are necessary to express discharge greater than measured, they are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, computation of flow over dams or weirs), step-backwater techniques, velocity-area studies, and logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables, then the monthly and yearly mean discharge are computed from the daily figures. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is computed by the shifting-control method, in which correction factors based on individual discharge measurements and notes by engineers and observers are used in applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control, the daily mean discharge is computed by what is basically the shifting-control method.

At some stream-gaging stations the stage-discharge relation is affected by the backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations the stage-discharge relation is affected by changing stage; at these stations the rate of change in stage is used as a factor in computing discharge.

At some northern stream-gaging stations the stage-discharge relation is affected by ice in the winter, and it becomes impossible to compute the discharge in the usual manner. Discharge for periods of ice effect is computed on the basis of gage-height record and occasional winter discharge measurements. Consideration is given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge for other stations in the same or nearby basins.

For a lake or reservoir station, capacity tables giving the contents for any stage are prepared from stage-area relation curves defined by surveys. The application of the stage to the capacity table gives the contents from which daily, monthly, or yearly change in contents is computed.

If the stage-capacity curve is subject to changes because of deposition of sediment in the reservoir, periodic resurveys of the reservoir are necessary to define new stage-capacity curves. During the period between reservoir surveys the computed contents may be increasingly in error due to the gradual accumulation of sediment.

For some gaging stations there are periods when no gage-height record is obtained or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods the daily discharges are estimated on the basis of recorded range in stage, prior and subsequent records, discharge measurements, weather records, and comparison with records for other stations in the same or nearby basins. Likewise daily contents may be estimated on the basis of operator's log, prior to subsequent records, inflow-outflow studies, and other information.

The data in this report generally comprise a description of the station and tabulations of daily and monthly figures. For gaging stations on streams or canals a table showing the daily discharge and monthly and yearly discharge is given. For gaging stations on lakes and reservoirs a monthly summary table of stage and contents or a table showing the daily contents is given. Tables of daily mean gage heights are included for some streamflow stations and for some reservoir stations. Records are published for the water year, which begins on October 1 and ends September 30.

The description of the gaging station gives the location, drainage area, period of record, notations of revisions of previously published records, type and history of gages, general remarks, average discharge, and extremes of discharge or contents. The location of the gaging station and the drainage area are obtained from the most accurate maps available. River mileage, given under "LOCATION" for some stations, is that determined and used by the U.S. Army Corps of Engineers or other agencies. Periods for which there are published records for the present station or for stations generally equivalent to the present one are given under "PERIOD OF RECORD."

Previously published streamflow records of some stations have been found to be in error on the basis of data or information later obtained. Revisions of such records are usually published along with the current records in one of the annual or compilation reports. In order to make it easier to find such revised records, a paragraph headed

"REVISED RECORDS" has been added to the description of all stations for which revised records have been published. Listed therein are all the reports in which revisions have been published, each followed by the water years for which figures are revised in that report. In listing the water years, only one number is given; for instance, 1965 stands for the water year October 1, 1964, to September 30, 1965. If no daily, monthly, or annual figures of discharge are affected by the revision, the fact is brought out by notations after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the revised figure was first published is given. It should be noted that for all stations for which cubic feet per second per square mile and runoff in inches are published, a revision of the drainage area necessitates corresponding revision of all figures based on the drainage area. Revised figures of cubic feet per second per square mile and runoff in inches resulting from a revision of the drainage area only are usually not published in the annual series of reports.

The type of gage currently in use, the datum of the present gage referred to National Geodetic Vertical Datum and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." National Geodetic Vertical Datum is explained in "DEFINITION OF TERMS."

Information pertaining to the accuracy of the discharge records and to conditions which affect the natural flow of the gaging station is given under "REMARKS." For reservoir stations information on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir is given under "REMARKS."

The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE"; it is not given for stations having fewer than 5 complete years of record or for stations where changes in water development during the period of record cause the figure to have little significance. In addition, the median of yearly mean discharges is given for stream-gaging stations having 10 or more complete years of record if the median differs from the average by more than 10 percent. Under "EXTREMES" are given first, the extremes for the period of record, second, information available outside the period of record, and last, those for the current year. Unless otherwise qualified, the maximum discharge (or contents) is the instantaneous maximum corresponding to the crest stage obtained by use of a water-stage recorder (graphic or digital), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur on the same day as the maximum discharge (or contents), it is given separately. Similarly, the minimum is the instantaneous minimum unless otherwise qualified. For some stations peak discharges are listed with "EXTREMES FOR THE CURRENT YEAR." If they are, all independent peaks, including the maximum for the year, above the selected base with the time of occurrence and corresponding gage heights are published in tabular format. The base discharge, which is given in the table heading, is selected so that an average of about three peaks a year will be presented. Peak discharges are not published for any canals, ditches, drains, or for any stream from which the peaks are subject to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030, 1:30 p.m. is 1330. The minimums for these stations are published in a separate paragraph following the table of peaks.

The daily table for stream-gaging stations gives the mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month also may be expressed in cubic feet per second per square mile (line headed "CFSM"), or in inches (line headed "IN."), or in acre-feet (line headed "AC-FT"). Figures for cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion, if the drainage area includes large uncontributing areas or if the average annual rainfall over the drainage basin is usually less than 20 inches. In the yearly summary below the monthly summary, the figures shown are the appropriate daily discharges for the calendar and water years.

Footnotes to the table of daily discharge are introduced by the word "NOTE." Footnotes are used to indicate periods for which the discharge is computed or estimated by special methods because of no gage-height record, backwater from various sources, or other unusual conditions. Periods of no gage-height record are indicated if the period is continuous for a month or more or includes the maximum discharge for the year. Periods of backwater from an unusual source, of indefinite stage-relation, or of any other unusual condition at the gage site are indicated only if they are a month or more in length and the accuracy of the records is affected. Days on which the stage-discharge relation is affected by ice are not indicated. The methods used in computing discharge for various unusual conditions have been explained in preceding paragraphs.

For most gaging stations on lakes and reservoirs the data presented comprise a description of the station and a monthly summary table of stage and contents. For some reservoirs, a table showing daily contents or stage is given. A skeleton table of capacity at given stages is published for all reservoirs for which records are published on a daily basis, but is not published for reservoirs for which only monthly data are given.

Data collected at partial-record stations and miscellaneous sites follow the information for continuous-record stations. Data for partial-record discharge stations and miscellaneous sites are presented in four tables. The first is a table of discharge measurements at low-flow partial-record stations, the second is a table of discharge measurements made at miscellaneous sites, the third is a table of annual maximum stage and discharge at crest-stage stations, and the fourth is a table of peak stage and discharge at miscellaneous sites. Occasionally, a series of discharge measurements are made within a short time period to investigate the seepage gains or losses along a reach of a stream or to determine the low-flow characteristics of an area. Such measurements are also given in special tables following the tables of partial-record stations.

Accuracy of field data and computed results

The accuracy of streamflow data depends primarily on (1) the stability of the stage-discharge relation or, if the control is unstable, the frequency of discharge measurements, and (2) the accuracy of observations of stage, measurements of discharge, and interpretation of records.

The station description under "REMARKS" states the degree of accuracy of the records. "Excellent" means that about 95 percent of the daily discharges are within 5 percent; "good" within 10 percent; and "fair" within 15 percent. "Poor" means that daily discharges have less than "fair" accuracy.

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 cfs; to tenths between 1.0 and 10 cfs; to whole numbers between 10 and 1,000 cfs; and to 3 significant figures above 1,000 cfs. The number of significant figures used is based solely on the magnitude of the figure. The same rounding rules apply to discharge figures listed for partial-record stations.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes, or to other factors. For such stations, figures of cubic feet per second per square mile and of runoff in inches are not published unless satisfactory adjustments can be made for diversion, for changes in contents of reservoirs, or for other changes incident to use and control. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or losses are large in comparison with the observed discharge.

Other data available

Information of a more detailed nature than that published for most of the gaging stations such as observation of water temperatures, discharge measurements, gage-height records, and rating tables is on file in the district office. Also most gaging-station records are available in computer-usable form and many statistical analyses have been made.

Information on the availability of unpublished data or statistical analyses may be obtained from the district office.

EXPLANATION OF WATER-QUALITY RECORDS

Collection and examination of data

Surface-water samples for analyses usually are collected at or near gaging stations. The quality-of-water records are given immediately following the discharge records at these stations.

The descriptive heading for water-quality records gives the period of record for all water-quality data; the period of daily record for parameters that are measured on a daily basis (specific conductance, pH, dissolved oxygen, water temperature, sediment discharge, etc.); extremes for the period of daily record; extremes for the current year; and general remarks.

Water analysis

Most methods for collecting and analyzing water samples are described in the U.S. Geological Survey Techniques of Water-Resources Investigations listed on a following page.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentrations of solute at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load.

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between a reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

For chemical-quality stations equipped with digital monitors, published records consist of daily maximum and minimum values for each constituent measured and are based upon hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record. Mean values and more detailed records (hourly values) may be obtained from the district office.

Water temperature

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at the time of discharge measurements for water-discharge stations. For stations where water temperatures are taken manually once or twice daily, the water temperatures are taken at about the same time each day. Large streams have a small diurnal temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharge.

At stations where recording instruments are used, mean daily temperatures and/or maximum and minimum temperatures for each day are published.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross sections.

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided day method. For periods when no samples were collected, daily loads of suspended sediment were estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

At other stations, suspended-sediment samples were collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observations, such data are useful in establishing seasonal relations between quality and streamflow in predicting long-term sediment-discharge characteristics of the stream.

In addition to the records of the quantities of suspended sediment, records of the periodic measurements of the particle-size distribution of the suspended sediment and bed material are included.

EXPLANATION OF GROUND-WATER LEVEL RECORDS

Collection of data

Ground-water level data from a network of observation wells in Georgia are published herein. This basic network contains observations wells located so that the most significant data are obtained from the fewest wells in the most important aquifers.

Each well is identified by means of (1) a 15-digit number that is based on latitude and longitude as shown in figure 1, and (2) a local number that is provided for local needs.

Water-level measurements in this report are given in feet to either National Geodetic Vertical Datum of 1929 (NGVD), land-surface datum, or altitude. NGVD is a datum plane on which the national network of precise level lines have been tied; land-surface datum is approximated by less than precise levels; altitude of the land surface is the approximated elevation obtained from a topograhic map. The NGVD, land-surface datum, or altitude is given in the well description. The height of the measuring point above or below land surface is given in each well description. Wells for which water-level data are included in this report are equipped with continuous recorders and daily mean water levels are reported. Low- and high-water levels included at the bottom of tables are extremes for data in the table only.

Water levels are reported to as many significant figures as can be justified by the local conditions. Accordingly, most measurements are reported to a hundredth of a foot.

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

Thirty-seven manuals by the U.S. Geological Survey have been published to date in the series on techniques describing procedures for planning and executing specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, Section A of Book 3 (Applications of Hydraulics) is on surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revisions and publication as the need arises. The reports listed below are for sale by the U.S. Geological Survey, Branch of Distribution, 604 South Pickett Street, Alexandria, VA 22304 (authorized agent of the Superintendent of Documents, Government Printing Office).

NOTE: When ordering any of these publications, please give the title, book number, chapter number, and "U.S. Geological Survey Techniques of Water-Resources Investigations."

1-D1. Water temperature-influential factors, field measurement, and data presentation, by H. H. Stevens, Jr., J. F. Ficke, and G. F. Smoot: USGS--TWRI Book 1, Chapter D1, 1975. 65 pages.

1-D2. Guidelines for collection and field analysis of ground-water samples for selected unstable constituents, by W. W. Wood: USGS--TWRI Book 1, Chapter D2. 1976. 24 pages.

2-D1. Application of surface geophysics to ground-water investigations, by A. A. R. Zohdy, G. P. Eaton, and D. R. Mabey: USGS--TWRI Book 2, Chapter D1. 1974. 116 pages.

2-E1. Application of borehole geophysics to water-resources investigations, by W. S. Keys and L. M. McCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages.

3-A1. General field and office procedures for indirect discharge measurements, by M. A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages.

3-A2. Measurement of peak discharge by the slope-area method, by Tate Dalrymple and M. A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages.

3-A3. Measurement of peak discharge at culverts by indirect methods, by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages.

3-A4. Measurement of peak discharge at width contractions by indirect methods, by H. F. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 pages.

3-A5. Measurement of peak discharge at dams by indirect methods, by Harry Hulsing: USGS--TWRI Book 3, Chapter A5. 1967. 29 pages.

3-A6. General procedure for gaging streams, by R. W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6. 1968. 13 pages.

3-A7. Stage measurements at gaging stations, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages.

3-A8. Discharge measurements at gaging stations, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages.

3-A9. Measurement of time of travel and dispersion in streams by dye tracing, by E. F. Hubbard, F. A. Kilpatrick, L. A. Martens, and J. F. Wilson, Jr.: USGS--TWRI Book 3, Chapter A9. 1982. 44 pages.

3-A11. Measurement of discharge by moving-boat method, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 pages.

3-B1. Aquifer-test design, observation, and data analysis, by R. W. Stallman: USGS--TWRI Book 3, chapter B1. 1971. 26 pages.

3-B2. Introduction to ground-water hydraulics, a programmed text for self-instruction, by G. D. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages.

3-B3. Type curves for selected problems of flow to wells in confined aquifers, by J. E. Reed: USGS--TWRI Book 3, Chapter B3. 1980. 106 pages.

3-C1. Fluvial sediment concepts, by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages.

3-C2. Field methods for measurement of fluvial sediment, by H. P. Guy and V. W. Norman: USGS--TWRI Book 3, Chapter C2. 1970. 59 pages.

3-C3. Computation of fluvial-sediment discharge, by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages.

4-A1. Some statistical tools in hydrology, by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages.

4-A2. Frequency curves, by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages.

4-B1. Low-flow investigations, by H. C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972. 18 pages.

4-B2. Storage analyses for water supply, by H. C. Riggs and C. H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages.

4-B3. Regional analyses of streamflow characteristics, by H. C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages.

4-D1. Computation of rate and volume of stream depletion by wells, by C. T. Jenkins: USGS--TWRI Book 4, Chapter D1. 1970. 17 pages.

5-A1. Methods for determination of inorganic substances in water and fluvial sediments, by M. W. Skougstad and others, editors: USGS--TWRI Book 5, Chapter A1. 1979. 626 pages.

5-A2. Determination of minor elements in water by emission spectroscopy, by P. R. Barnett and E. C. Mallory, Jr.: USGS--TWRI Book 5, Chapter A2. 1971. 31 pages.

5-A3. Methods for analysis of organic substances in water, by D. F. Goerlitz and Eugene Brown: USGS--TWRI Book 5, Chapter A3. 1972. 12 pages.

5-A4. Methods for collection and analysis of aquatic biological and microbiological samples, edited by P. E. Greeson, T. A. Ehlke, G. A. Irwin, B. W. Lium, and K. V. Slack: USGS--TWRI Book 5, Chapter A4. 1977. 332 pages.

5-A5. Methods for determination of radioactive substances in water and fluvial sediments, by L. L. Thatcher, V. J. Janzer, and K. W. Edwards: USGS--TWRI Book 5, Chapter A5. 1977. 95 pages.

5-C1. Laboratory theory and methods for sediment analysis, by H. P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages.

7-C1. Finite difference model for aquifer simulation in two dimensions with results of numerical experiments, by P. C. Trescott, G. F. Pinder, and S. P. Larson: USGS--TWRI Book 7, Chapter C1. 1976. 116 pages.

7-C2. Computer model of two-dimensional solute transport and dispersion in ground water, by L. F. Konikow and J. D. Bredehoeft: USGS--TWRI Book 7, Chapter C2. 1978. 90 pages.

7-C3. A model for simulation of flow in singular and interconnected channels, by R. W. Schaffranek, R. A. Baltzer, and D. E. Goldberg: USGS--TWRI Book 7, Chapter C3. 1981. 110 pages.

8-A1. Methods of measuring water levels in deep wells, by M. S. Garber and F. C. Koopman: USGS--TWRI Book 8, Chapter A1. 1968. 23 pages.

8-B2. Calibration and maintenance of vertical-axis type current meters, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 8, Chapter B2. 1968. 15 pages.

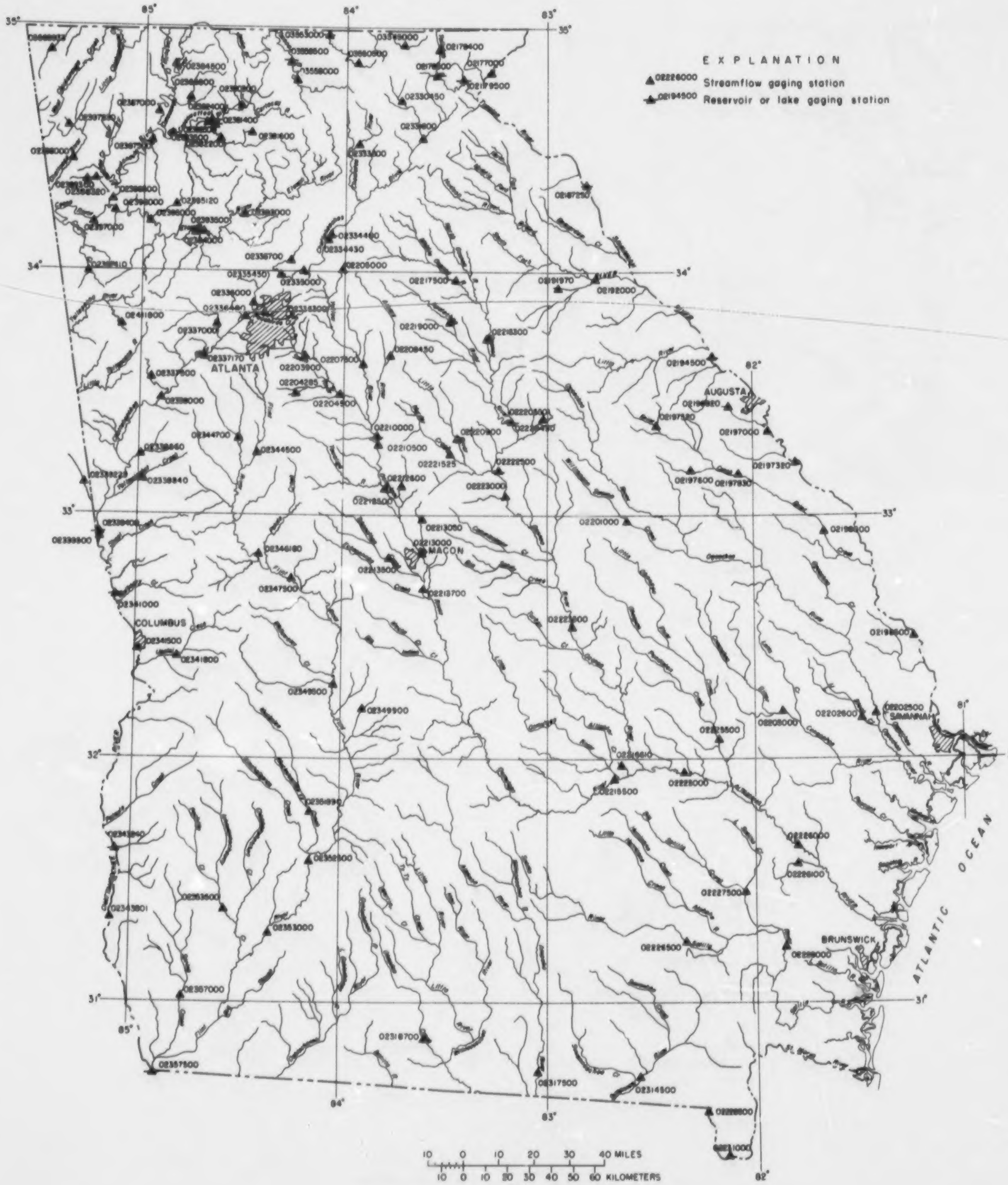

Figure 3.—Location of gaging stations.

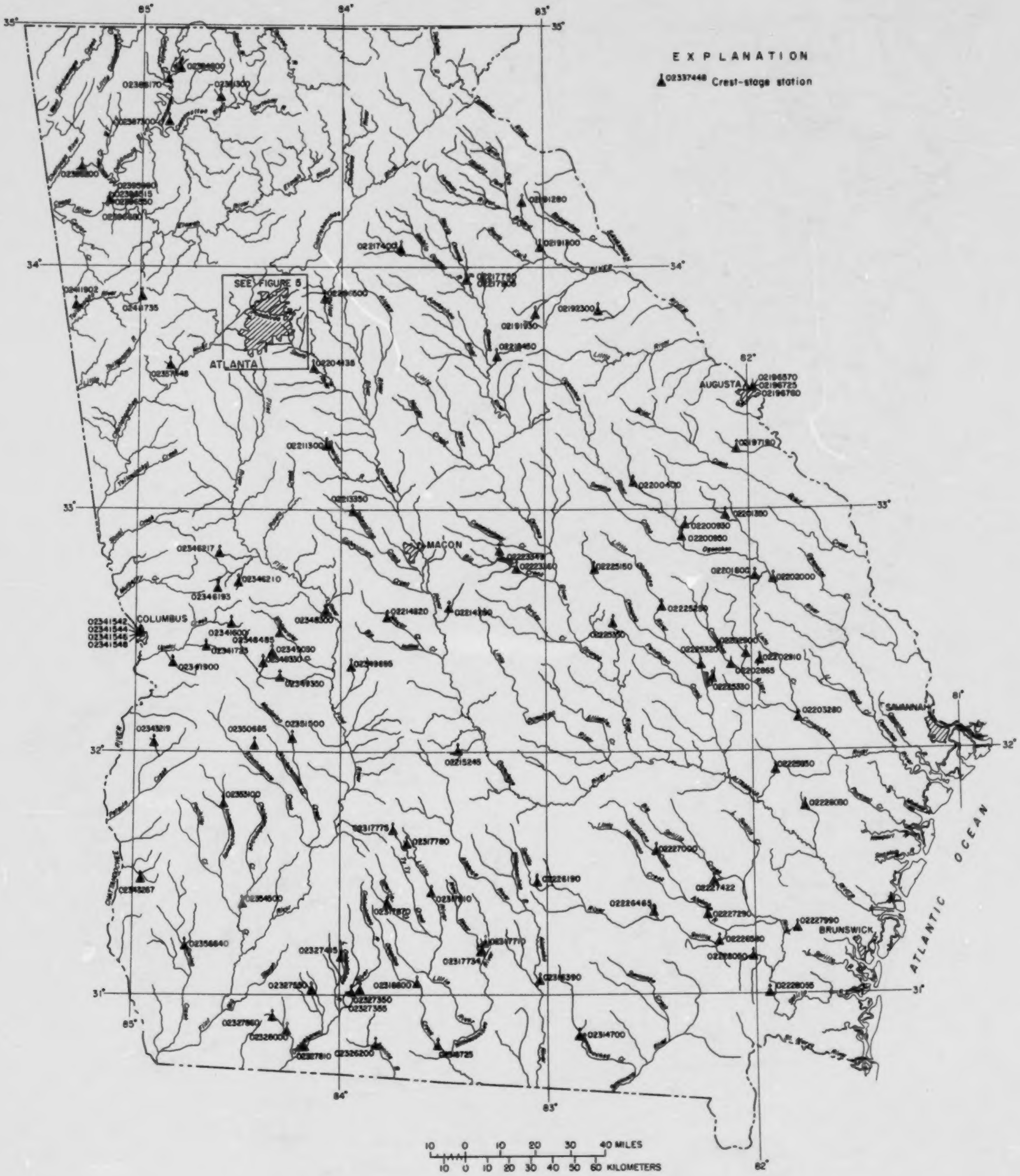

Figure 4.—Location of crest stage partial-record stations.

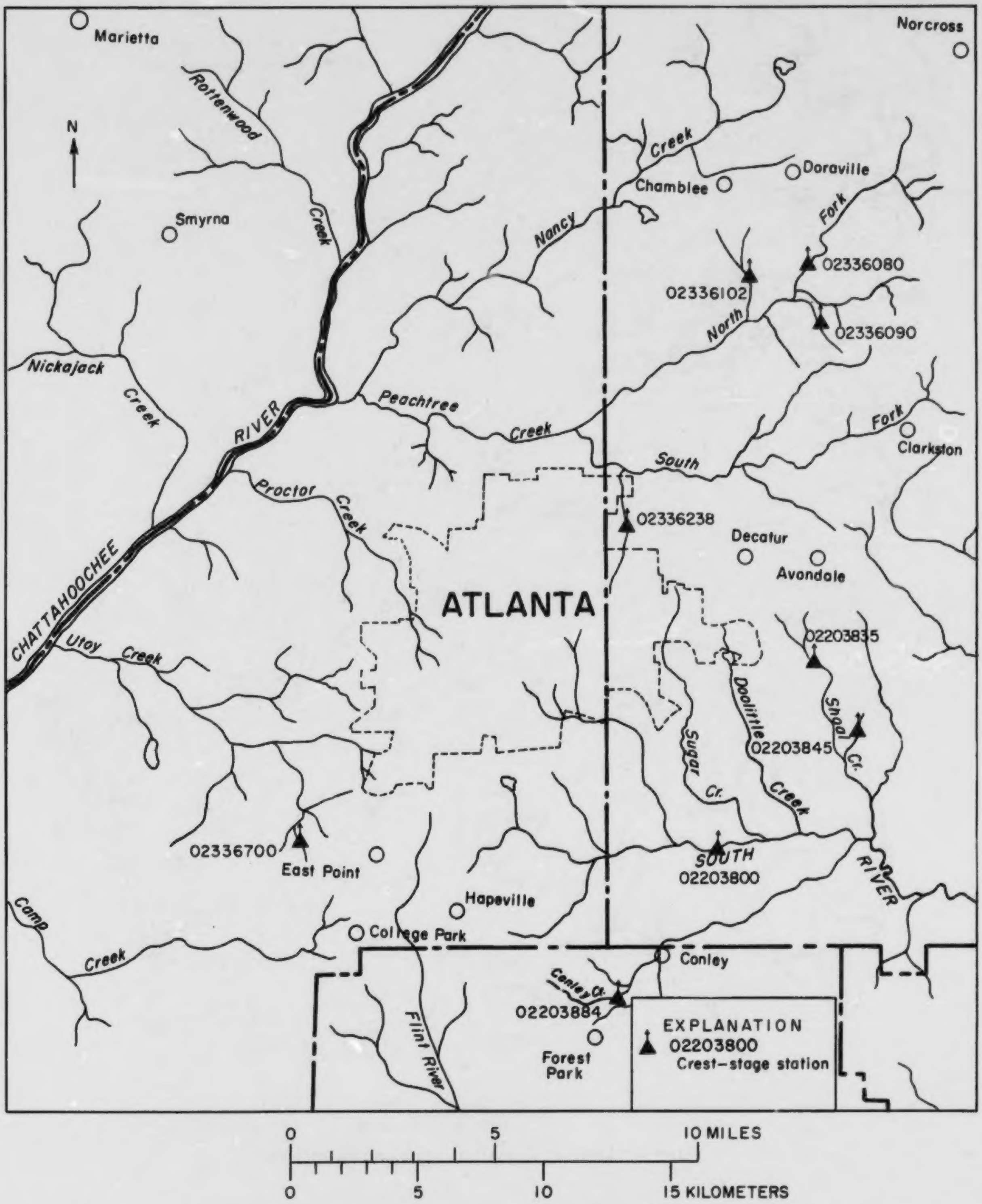

Figure 5.—Location of crest stage partial-record stations in Atlanta metropolitan area.

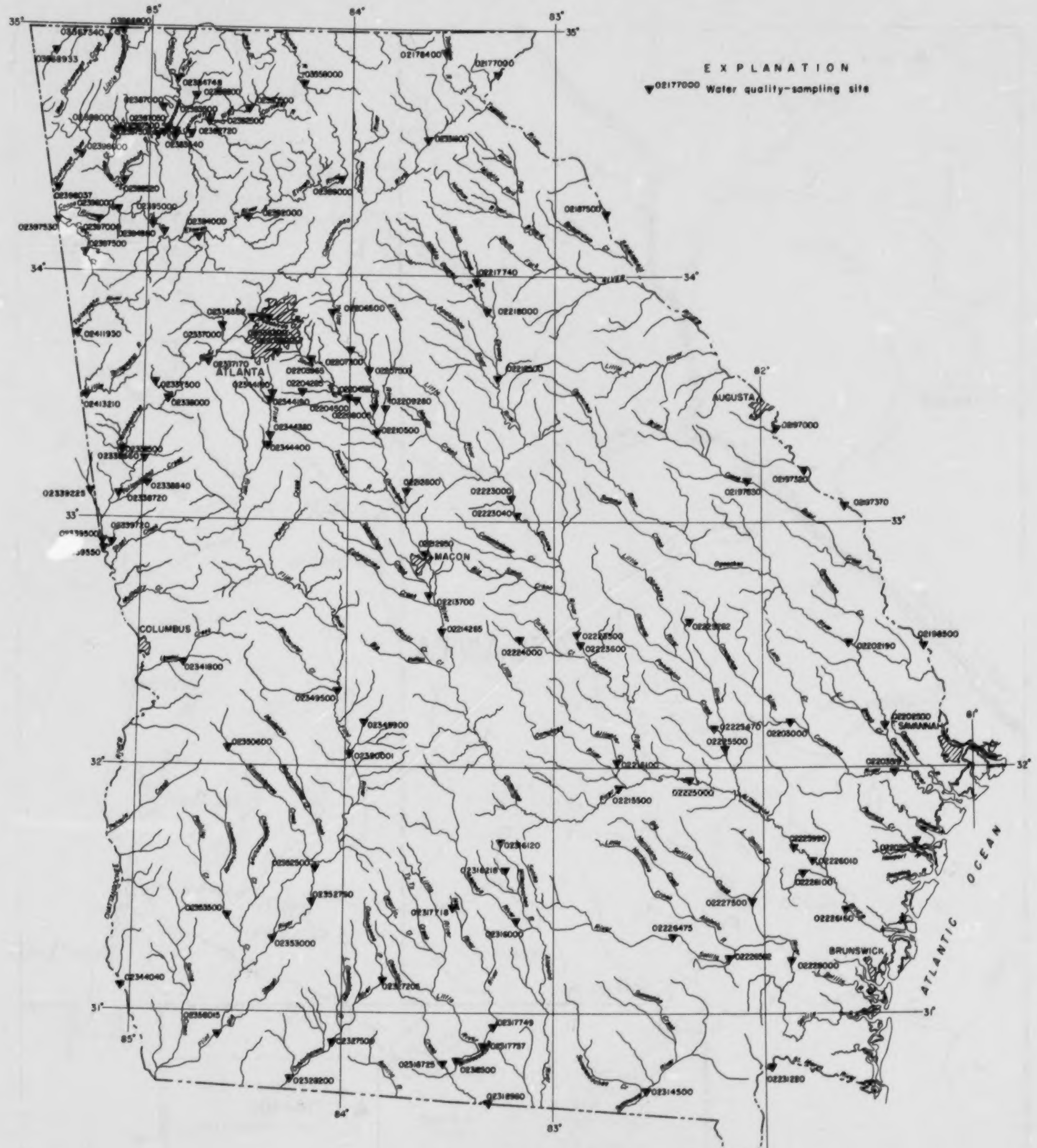

Figure 6.—Location of surface water-quality stations.

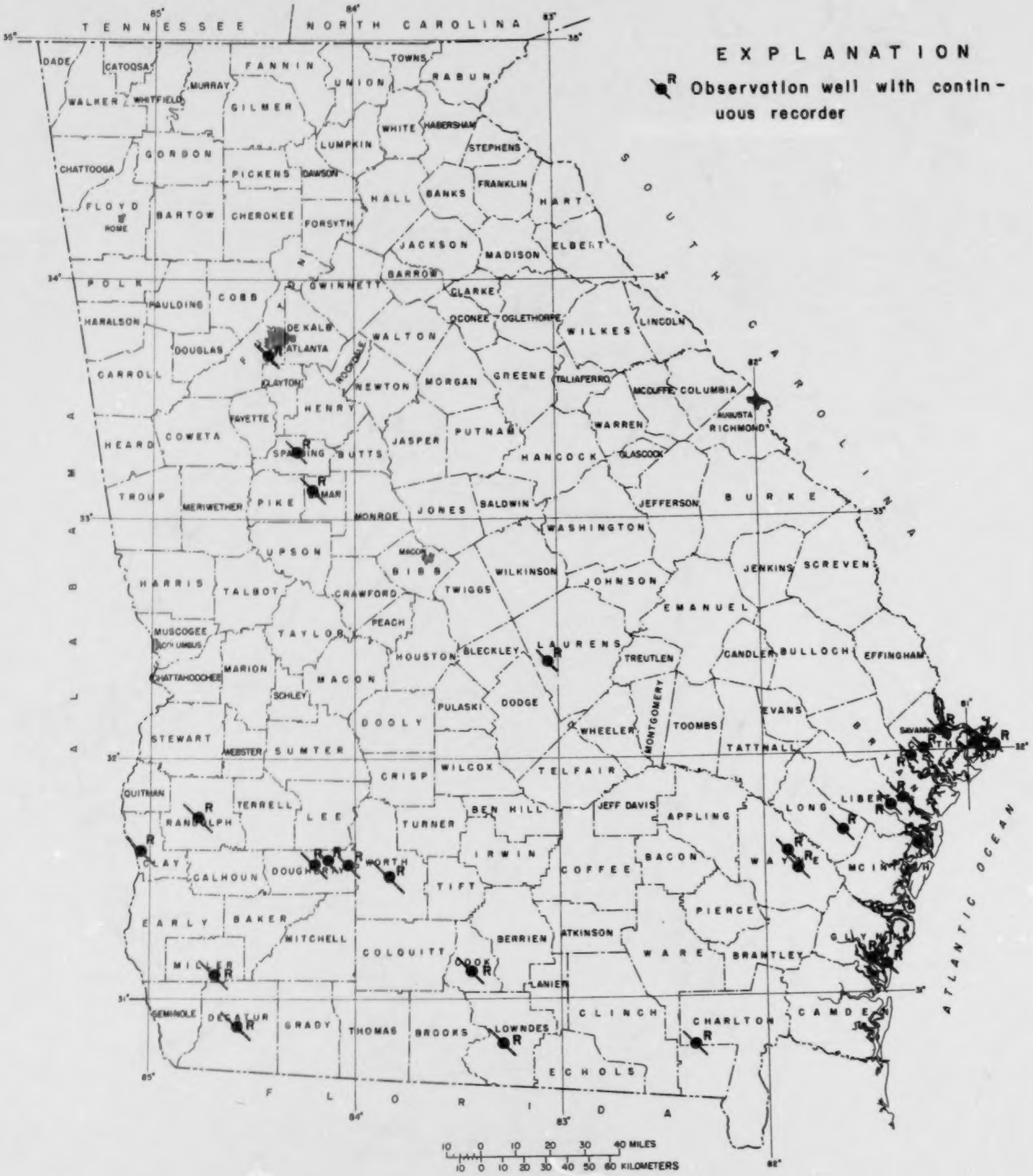

Figure 7.—Location of selected observation wells.

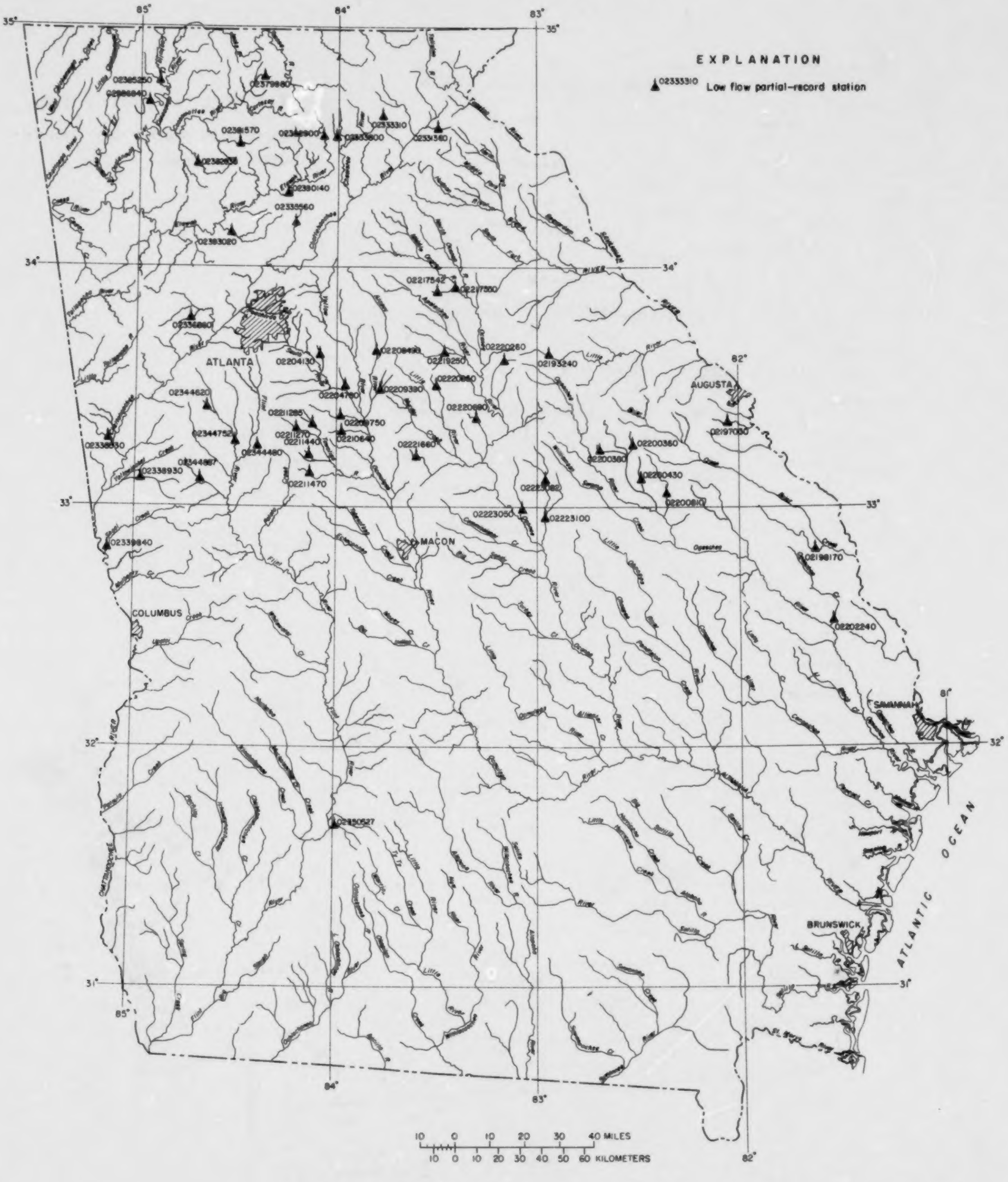

Figure 8.—Location of low-flow partial-record stations.

SAVANNAH RIVER BASIN

02177000 CHATTOOGA RIVER NEAR CLAYTON, GA.

LOCATION.--Lat 34°48'50", long 83°18'22", Oconee County, S.C.-Rabun County, Ga., Hydrologic Unit 03060102, on left bank 150 ft (46 m) downstream from bridge on U.S. Highway 76, 2.8 mi (4.5 km) upstream from Stekoa Creek, 7 mi (11.3 km) southeast of Clayton, 9 mi (14.5 km) downstream from War Woman Creek, and 9 mi (14.5 km) upstream from confluence with Tallulah River.

DRAINAGE AREA.--207 mi^2 (536 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1907 to June 1908, October 1939 to current year. Monthly discharge only for some periods, published in WSP 1303.

REVISED RECORDS.--WSP 1383: 1940-41, drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,165.6 ft (355.28 m) National Geodetic Vertical Datum of 1929. May 1907 to June 1908, nonrecording gage at site 400 ft (122 m) upstream at different datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--43 years, 658 ft^3/s (18.63 m^3/s), 43.17 in/yr (1,097 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 29,000 ft^3/s (821 m^3/s) Aug. 30, 1940, gage height, 13.8 ft (4.206 m), from rating curve extended above 4,700 ft^3/s (133 m^3/s) on basis of slope-area measurements at gage heights 9.9 and 13.2 ft (3.018 and 4.023 m); minimum, 88 ft^3/s (2.49 m^3/s) Oct. 8, 12, 13, 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,400 ft^3/s (96.3 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 4	0930	3960	112	4.31	1.314	Feb. 3	1200	*5000	142	4.89	1.491

Minimum discharge, 112 ft^3/s (3.17 m^3/s) Oct. 8, 9, gage height, 0.86 ft (0.262 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	129	190	688	1460	1600	981	595	687	1190	385	777	461
2	124	181	741	858	1080	987	567	658	779	372	535	680
3	116	172	439	1270	3630	977	639	634	639	365	450	453
4	116	164	349	3150	2210	934	628	612	586	354	407	394
5	118	172	304	1630	1570	876	590	590	591	343	384	369
6	122	170	273	1180	1340	849	605	573	553	345	377	355
7	120	163	255	968	1170	1400	559	560	507	339	349	342
8	113	152	241	824	1070	1150	587	625	485	350	372	331
9	113	148	224	732	1200	1000	780	563	464	341	448	322
10	139	146	213	662	1190	929	660	523	510	438	634	321
11	156	144	203	644	1030	881	608	506	537	399	535	370
12	145	142	200	636	956	846	578	490	497	407	511	403
13	136	140	194	619	911	807	560	483	999	624	445	359
14	128	139	272	589	851	777	553	472	704	404	413	345
15	126	137	470	576	831	991	623	462	578	545	389	325
16	126	136	444	521	1080	974	1060	453	531	570	374	310
17	126	164	347	469	1720	866	1070	464	500	667	657	311
18	129	144	317	437	1470	815	1090	497	538	622	782	295
19	140	140	265	494	1290	780	855	465	573	859	1040	291
20	129	183	232	564	1170	755	771	468	495	735	685	302
21	123	247	372	980	1080	741	713	475	457	526	573	286
22	124	181	348	970	1000	727	664	497	444	496	507	273
23	158	162	481	1030	948	687	624	525	440	527	471	263
24	214	186	642	999	912	676	592	703	425	608	443	257
25	172	201	881	794	864	681	657	595	450	484	426	258
26	629	182	813	699	852	666	1280	611	454	443	405	297
27	662	195	594	628	1110	627	1010	846	459	436	394	282
28	372	291	496	597	1050	613	943	721	496	411	389	265
29	262	239	439	571	---	600	809	715	471	392	377	254
30	227	241	395	548	---	596	738	596	413	493	365	251
31	199	---	1120	875	---	599	---	699	---	542	370	---
TOTAL	5693	5252	13252	26974	35185	25788	22008	17768	16765	14822	15284	10025
MEAN	184	175	427	870	1257	832	734	573	559	478	493	334
MAX	662	291	1120	3150	3630	1400	1280	846	1190	859	1040	680
MIN	113	136	194	437	831	596	553	453	413	339	349	251
CFSM	.89	.85	2.06	4.20	6.07	4.02	3.55	2.77	2.70	2.31	2.38	1.61
IN.	1.02	.94	2.38	4.85	6.32	4.63	3.96	3.19	3.01	2.66	2.75	1.80

CAL YR 1981 TOTAL 122433 MEAN 335 MAX 2200 MIN 113 CFSM 1.62 IN 22.00
WTR YR 1982 TOTAL 208816 MEAN 572 MAX 3630 MIN 113 CFSM 2.76 IN 37.53

02177000 CHATTOOGA RIVER NEAR CLAYTON, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1968 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, Dissolved Oxygen, and Specific Conductance by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	TEMPER-ATURE, AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT 21...	1230	122	18	17	7.2	7.0	11.0	23.0	11.2	103
NOV 18...	1100	144	--	10	6.5	6.7	8.0	14.5	12.0	--
DEC 16...	0945	468	16	13	6.8	6.8	4.0	4.5	13.0	102
JAN 20...	1315	569	--	11	6.9	6.7	5.0	20.0	12.4	100
FEB 11...	1330	1020	11	10	6.8	7.0	6.5	14.5	11.8	103
MAR 18...	1900	808	13	10	--	6.7	14.5	18.5	9.7	98
APR 22...	1215	662	14	12	7.1	6.8	14.0	20.0	10.0	100
MAY 11...	1015	506	12	13	6.8	6.8	16.0	23.5	9.9	104
JUN 16...	0830	537	13	14	6.7	6.8	19.5	21.5	8.0	91
JUL 22...	1230	476	--	15	7.0	6.8	25.0	32.0	8.2	104
AUG 18...	1300	724	11	12	6.8	6.7	21.0	27.5	8.0	103
SEP 15...	1045	323	15	14	7.2	6.9	22.0	35.0	8.7	123

DATE	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 21...	1	.3	<30	8.0	<1	<.02	.040	<.020	2.5
NOV 18...	2	<.1	40	6.0	<1	<.02	.040	<.020	<1.0
DEC 16...	<5	.6	--	6.0	3	<.02	<.020	<.020	<1.0
JAN 20...	10	.7	50	3.0	<1	.08	.040	<.020	<1.0
FEB 11...	2	.6	--	4.0	4	.04	<.020	<.020	1.0
MAR 18...	7	.1	50	7.0	4	<.02	.030	<.020	<1.0
APR 22...	3	.4	<30	4.0	<1	.03	<.020	.020	<1.0
MAY 11...	3	.2	<30	5.0	1	<.02	.070	<.020	3.0
JUN 16...	3	.4	50	7.0	8	.03	.030	<.020	1.0
JUL 22...	5	1.7	60	6.0	6	.02	.020	<.020	<1.0
AUG 18...	28	.4	--	4.0	53	.04	.030	.100	3.0
SEP 15...	3	.9	<20	6.0	<1	<.02	.020	.020	<1.0

02178400 TALLULAH RIVER NEAR CLAYTON, GA.
(Hydrologic bench-mark station)

LOCATION.--Lat 34°53'25", long 83°31'50", Rabun County, Hydrologic Unit 03060102, on right bank 100 ft (30 m) downstream from county highway bridge, 120 ft (37 m) downstream from Persimmon Creek, 8 mi (12.9 km) upstream from Burton Dam, and 10.3 mi (16.6 km) west of Clayton.

DRAINAGE AREA.—56.5 mi^2 (146 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—July 1964 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,868.93 ft (569.650 m) National Geodetic Vertical Datum of 1929 (levels by Georgia Department of Transportation).

REMARKS.--Records good.

AVERAGE DISCHARGE.—18 years, 199 ft^3/s (5.636 m^3/s), 47.83 in/yr (1,215 mm/yr).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 8,500 ft^3/s (241 m^3/s) May 28, 1973, gage height, 12.00 ft (3.658 m); minimum discharge, 36 ft^3/s (1.02 m^3/s) Oct. 7, 8, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,200 ft^3/s (34.0 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 4	0600	1580	44.7	5.25	1.631
Feb. 3	0700	*1960	55.5	5.88	1.792

Minimum discharge, 36 ft^3/s (1.02 m^3/s) Oct. 7, 8, gage height, 1.78 ft (0.543 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	52	268	285	433	237	150	160	134	85	209	185
2	40	50	188	203	408	239	147	154	113	81	160	162
3	39	49	133	491	1450	233	169	148	107	80	131	111
4	40	48	109	1030	726	220	149	143	134	78	116	95
5	39	55	93	470	497	209	154	139	120	77	112	87
6	39	53	84	314	395	207	152	134	105	74	108	82
7	38	48	78	251	332	324	142	131	99	75	97	78
8	37	47	73	208	295	262	179	177	95	93	123	75
9	39	47	68	184	374	237	202	137	92	102	150	72
10	55	46	64	170	326	221	177	130	105	100	150	71
11	45	46	64	160	288	211	165	126	95	103	149	102
12	42	45	61	155	264	201	157	124	133	91	135	89
13	41	45	59	150	247	195	152	122	167	82	118	82
14	41	44	98	140	229	187	149	117	116	96	110	78
15	41	44	101	130	227	312	144	113	104	102	109	73
16	40	44	88	120	316	278	152	113	98	99	104	71
17	40	54	83	113	392	238	189	111	96	158	134	68
18	47	47	79	110	339	227	173	109	96	145	130	66
19	45	45	74	137	318	215	162	107	92	181	113	66
20	41	71	70	165	280	205	157	145	86	168	101	65
21	41	55	66	416	261	198	150	140	83	153	95	63
22	41	52	107	293	239	187	143	125	82	133	89	61
23	63	50	178	299	223	180	137	144	81	116	85	61
24	50	72	169	269	213	176	133	167	79	113	82	60
25	52	58	284	226	203	174	202	128	79	117	80	60
26	178	54	214	197	204	172	272	138	77	108	76	79
27	128	110	165	176	282	162	227	165	119	101	75	80
28	79	121	137	164	242	158	197	157	119	95	74	64
29	64	86	121	154	---	156	181	138	129	125	73	61
30	58	130	108	146	---	154	169	125	94	243	71	60
31	55	---	340	488	---	156	---	121	---	208	76	---
TOTAL	1638	1768	3824	7814	10003	6531	5032	4188	3129	3582	3435	2427
MEAN	52.8	58.9	123	252	357	211	168	135	104	116	111	80.9
MAX	178	130	340	1030	1450	324	272	177	167	243	209	185
MIN	37	44	59	110	203	154	133	107	77	74	71	60
CFSM	.94	1.04	2.18	4.46	6.32	3.74	2.97	2.39	1.84	2.05	1.97	1.43
IN.	1.08	1.16	2.52	5.14	6.59	4.30	3.31	2.76	2.06	2.36	2.26	1.60

CAL YR 1981 TOTAL 40104 MEAN 110 MAX 944 MIN 37 CFSM 1.95 IN 26.40
WTR YR 1982 TOTAL 53371 MEAN 146 MAX 1450 MIN 37 CFSM 2.58 IN 35.14

02178400 TALLULAH RIVER NEAR CLAYTON, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1967 to September 1968, December 1969 to current year.
PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: September 1964 to September 1979.
EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 28.0°C July 28, 1966; minimum, 0.0°C on several days during most years.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
JAN								
06...	1645	294	12	14	6.7	6.7	7.5	--
FEB								
09...	1200	520	13	19	6.8	6.9	8.0	11.2
23...	0950	224	13	13	6.7	6.9	5.5	--
JUN								
23...	1025	82	24	18	7.2	7.1	16.0	--
AUG								
03...	1000	138	11	19	6.9	6.5	16.0	--
SEP								
02...	1030	158	18	21	7.0	7.0	18.0	8.8
14...	1045	79	19	19	7.8	6.9	18.5	--

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)
FEB											
09...	25	54	3	.00	.9	.3	.7	27	.2	.5	5.0
SEP											
02...	9	8.1	6	.00	1.4	.5	1.0	27	.2	.3	7.0

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)
FEB											
09...	.9	.6	<.1	5.6	16	13	22.5	.31	.07	.070	.040
SEP											
02...	2.0	.7	<.1	7.9	26	18	11.1	<.10	<.10	.020	.010

DATE	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	NITRO-GEN DIS-SOLVED (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
FEB									
09...	.31	.18	.38	.22	.29	.69	.090	.020	3.4
SEP									
02...	.48	.19	.50	.20	--	--	.030	<.010	1.8

02178400 TALLULAH RIVER NEAR CLAYTON, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)
FEB 09...	20	1	<1	<1	20	3	32
SEP 02...	20	1	<1	1	10	3	37

DATE	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	SELENIUM, DISSOLVED (UG/L AS SE)	ZINC, DISSOLVED (UG/L AS ZN)
FEB 09...	5	1	5	.2	.1	<1	7
SEP 02...	4	1	7	<.1	<.1	<1	6

02187500 SAVANNAH RIVER NEAR IVA, S.C.

LOCATION.--Lat 34°15'20", long 82°44'42", Anderson County, S.C.-Elbert County, Ga., Hydrologic Unit 03060103, on left bank at downstream side of bridge on State Highway 184, 0.5 mi (0.8 km) upstream from Little Generostee Creek, 5.8 mi (9.3 km) southwest of Iva, and at mile 296.5 (477.1 km).
DRAINAGE AREA.--2,231 mi^2 (5,778 km^2).
PERIOD OF RECORD.--February 1968 to current year.
PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October 1962 to September 1967, October 1968 to September 1972.
REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Air Temperature, Water Temperature, pH, Dissolved Oxygen, and Specific Conductance by U.S. Geological Survey. Water discharge record for the period October 1949 to September 1981 are in reports published by the U.S. Geological Survey.
EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum daily, 28.0°C Aug. 30, 31, 1970; minimum daily, 3.0°C Jan. 31, 1966.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	TEMPER-ATURE, AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
NOV									
18...	0830	--	35	6.8	6.8	14.0	11.0	6.9	--
FEB									
11...	1100	37	34	6.9	--	6.0	12.0	12.0	96
MAY									
11...	0830	33	36	6.7	6.8	9.0	17.0	11.1	97
AUG									
18...	1100	33	34	6.7	6.6	12.0	31.0	6.9	88

DATE	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)
NOV										
18...	3	.4	30	12	.04	.030	.040	1.0	390	180
FEB										
11...	8	.9	170	9.0	.18	.040	--	2.0	130	<50
MAY										
11...	6	.3	90	11	.16	.060	.020	2.0	1200	60
AUG										
18...	9	.5	--	10	.27	.030	.020	<1.0	610	60

02191970 LITTLE MACKS CREEK NEAR LEXINGTON, GA.

LOCATION.--Lat 33°56'28", long 82°52'18", Oglethorpe County, Hydrologic Unit, 03060104, on right bank 10 ft (3.0 m) upstream from culvert wingwall on State Highway 77, 11.3 mi (18.2 km) northeast of junction with U.S. Highway 78 in Lexington.

DRAINAGE AREA.--1.77 mi^2 (4.58 km^2).

PERIOD OF RECORD.--Annual maximum, water years 1960-74, December 1974 to current year. Prior to October 1977, published as Macks Creek Tributary No. 2 near Lexington.

GAGE.--Water-stage recorder. Altitude of gage is 510 ft (155 m), from topographic map. December 9, 1959, to December 4, 1974, crest-stage gage at same site and datum.

REMARKS.--Records fair except those for period of beaverdams, Mar. 15 to Apr. 10, 16-24, and June 7-9, 23-29, which are poor.

AVERAGE DISCHARGE.--7 years, 2.06 ft^3/s (0.058 m^3/s), 15.80 in/yr (401 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 853 ft^3/s (24.2 m^3/s) Nov. 5, 1977, gage height, 10.49 ft (3.197 m); minimum daily discharge, 0.13 ft^3/s (0.004 m^3/s) Oct. 2, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 70 ft^3/s (1.98 m^3/s) Feb. 16, gage height, 3.10 ft (0.945 m), no peaks above base of 100 ft^3/s (2.83 m^3/s); minimum daily discharge, 0.13 ft^3/s (0.004 m^3/s) Oct. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.15	.38	1.6	9.3	1.9	5.0	1.7	2.4	1.7	.63	1.5	1.8
2	.13	.42	1.0	6.1	2.7	4.3	1.8	2.1	.96	.58	1.1	1.4
3	.14	.48	.71	3.4	21	3.7	1.7	2.0	.94	.54	.92	.72
4	.14	.48	.67	14	7.9	3.3	1.6	1.8	2.0	.51	.90	.67
5	.14	.50	.65	7.8	5.4	2.8	3.1	1.8	1.6	.47	.88	.65
6	.14	.48	.63	5.3	4.8	2.6	2.5	1.6	1.3	.47	.86	.63
7	.14	.43	.60	3.4	3.9	3.8	2.6	1.5	1.1	.86	.83	.63
8	.14	.40	.58	2.4	3.4	3.1	3.0	1.5	.80	.71	.81	.61
9	.15	.46	.56	1.9	3.9	3.0	2.5	1.4	.63	.63	.86	.58
10	.40	.52	.54	1.8	4.1	2.8	2.2	1.4	.69	.63	.81	.58
11	.40	.52	.54	1.7	3.5	2.8	2.0	1.3	.70	.81	3.2	.67
12	.38	.52	.54	1.5	3.5	2.5	1.8	1.2	.82	.76	1.3	.70
13	.37	.51	.54	1.4	3.5	2.1	1.6	1.2	.92	.56	.98	.68
14	.36	.49	2.5	1.4	3.0	2.0	1.7	1.0	.72	.57	.92	.65
15	.30	.49	3.2	1.4	3.2	3.6	4.0	1.0	.70	.98	.90	.63
16	.30	.50	2.0	1.4	16	3.2	5.3	.98	.86	.96	.78	.63
17	.30	.57	1.3	1.5	14	3.3	4.2	.98	1.7	.63	1.8	.60
18	.28	.51	1.2	1.4	6.6	3.1	3.2	.98	1.4	.58	1.4	.58
19	.28	.55	1.1	1.5	5.3	2.8	3.6	1.0	1.2	.51	1.2	.58
20	.28	.66	1.1	1.5	4.2	2.4	3.6	.97	1.2	.47	1.1	.58
21	.30	.57	1.0	2.4	3.5	2.2	3.0	.94	1.2	.47	.80	.57
22	.30	.50	1.0	2.1	2.9	2.0	2.5	.92	2.1	4.3	.76	.52
23	.33	.53	.98	2.8	3.2	1.9	2.1	1.9	1.1	3.0	.74	.51
24	.38	.79	1.3	3.3	2.9	2.3	2.5	1.6	1.1	1.3	.72	.51
25	.68	.58	5.1	2.6	3.1	2.1	4.8	1.2	1.1	1.1	.70	.51
26	.81	.53	2.0	2.3	4.0	2.0	4.8	1.3	1.2	1.0	.67	.51
27	.59	.56	1.8	2.3	6.4	1.8	5.5	1.1	1.4	.96	.67	.51
28	.44	.62	2.7	2.2	5.8	1.7	4.1	1.1	1.2	.92	.67	.51
29	.36	.58	11	2.0	---	1.7	3.2	1.2	.95	.95	.65	.51
30	.42	1.1	16	1.9	---	1.6	2.7	.93	.81	.86	.63	.49
31	.38	---	25	2.0	---	1.6	---	.89	---	1.8	.63	---
TOTAL	9.91	16.23	89.44	96.0	153.6	83.1	88.9	41.19	34.10	29.52	30.69	19.72
MEAN	.32	.54	2.89	3.10	5.49	2.68	2.96	1.33	1.14	.95	.99	.66
MAX	.81	1.1	25	14	21	5.0	5.5	2.4	2.1	4.3	3.2	1.8
MIN	.13	.38	.54	1.4	1.9	1.6	1.6	.89	.63	.47	.63	.49
CFSM	.18	.31	1.63	1.75	3.10	1.51	1.67	.75	.64	.54	.56	.37
IN.	.21	.34	1.88	2.02	3.23	1.75	1.87	.87	.72	.62	.64	.41

CAL YR 1981 TOTAL 398.32 MEAN 1.09 MAX 25 MIN .13 CFSM .62 IN 8.37
WTR YR 1982 TOTAL 692.40 MEAN 1.90 MAX 25 MIN .13 CFSM 1.07 IN 14.54

02192000 BROAD RIVER NEAR BELL, GA.

LOCATION.--Lat 33°58'27", long 82°46'12", Elbert-Wilkes County line, Hydrologic Unit 03060104, at downstream side of main channel pier of bridge on State Highway 17, 0.5 mi (0.8 km) downstream from Long Creek, 1 mi (1.6 km) south of Bells Crossroads, and 12 mi (19.3 km) southeast of Elberton.

DRAINAGE AREA.--1,430 mi^2 (3,700 km^2), approximately.

PERIOD OF RECORD.--October 1926 to September 1932, August 1937 to current year. Monthly discharge only for some periods, published in WSP 1303.

REVISED RECORDS.--WSP 1172: 1928-30. WSP 1383: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 357.16 ft (108.862 m) National Geodetic Vertical Datum of 1929. Prior to October 1928, nonrecording gage at railroad bridge about 1 mi (1.6 km) downstream at datum 1.12 ft (0.341 m) lower. October 1928 to July 1932, and August 1937 to January 1939, nonrecording gage at present site and datum.

REMARKS.--Records good except those for periods of no gage-height record, May 25 to June 29, Aug. 22 to Sept. 2, and Sept. 5-22, which are poor. Records of chemical analyses for the 1970-79 water years are in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--51 years, 1,805 ft^3/s (51.12 m^3/s), 17.14 in/yr (435 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 79,400 ft^3/s (2,250 m^3/s) Oct. 2, 1929, gage height, 34.8 ft (10.61 m), from rating curve extended above 30,000 ft^3/s (850 m^3/s) on basis of slope-conveyance studies; minimum, 108 ft^3/s (3.06 m^3/s) Oct. 8, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1926, that of Oct. 2, 1929.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 14,000 ft^3/s (396 m^3/s) and maximum (*):

Date	Time	Discharge (ft /s)	(m /s)	Gage height (ft)	(m)	Date	Time	Discharge (ft /s)	(m /s)	Gage height (ft)	(m)
Jan. 5	1900	24800	702	23.18	7.065	Feb. 4	2300	*25300	716	23.43	7.141

Minimum daily discharge, 172 ft^3/s (4.87 m^3/s) Oct. 4, 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	181	388	700	12000	1660	3490	1250	2050	1000	785	1180	620
2	179	376	1680	9940	1860	2840	1240	1830	1300	714	974	800
3	179	372	1360	4520	8370	2390	1250	1680	1200	677	847	965
4	172	367	903	12400	21600	2070	1290	1550	1050	659	756	825
5	172	364	717	22200	21500	1870	1430	1460	1500	647	739	730
6	177	363	626	20300	8320	1740	2280	1380	1250	639	1350	660
7	179	383	578	6990	4190	2190	1870	1310	1100	633	904	610
8	179	385	541	3800	3290	3150	1670	1290	950	638	889	570
9	177	371	525	3030	2920	2420	2920	1300	900	638	827	550
10	186	365	512	2420	3140	2030	2790	1210	850	679	916	540
11	208	368	499	1930	2730	1850	2040	1150	850	961	1280	700
12	252	371	492	1600	2240	1730	1730	1100	880	984	1370	1230
13	263	372	490	1520	2240	1640	1570	1060	940	726	1070	1120
14	252	369	613	1500	2110	1560	1500	1020	1050	665	868	866
15	246	371	1710	1470	1860	1560	1590	990	900	1310	806	780
16	244	373	2280	1380	2270	2240	2080	980	850	1450	789	720
17	249	378	1530	1420	7730	2380	2780	970	830	1340	788	660
18	249	381	1070	1370	6770	2350	2390	950	810	1590	1620	630
19	246	378	878	1350	3670	2170	2140	928	790	1050	1400	600
20	252	376	756	1500	2650	1900	1870	978	800	861	1100	570
21	268	389	694	1770	2240	1740	1910	935	880	803	865	550
22	263	404	693	2500	1950	1640	1740	913	950	729	820	528
23	263	386	705	2520	1740	1570	1530	1280	1100	772	770	506
24	280	406	704	3070	1620	1470	1410	2270	900	742	730	488
25	324	460	1900	2550	1540	1480	1630	1800	800	1060	700	480
26	492	484	3450	2000	1480	1440	4520	1500	800	864	700	482
27	898	451	2310	1670	2330	1410	7250	1300	810	749	660	488
28	742	440	1540	1470	4270	1320	5880	1150	900	721	630	497
29	563	435	1350	1370	---	1260	3280	1100	1000	713	600	492
30	462	425	1210	1290	---	1250	2470	1040	870	1050	590	477
31	412	---	3280	1260	---	1250	---	980	---	1170	580	---
TOTAL	9209	11751	36296	134110	128290	59400	69300	39454	28810	27019	28118	19734
MEAN	297	392	1171	4326	4582	1916	2310	1273	960	872	907	658
MAX	898	484	3450	22200	21600	3490	7250	2270	1500	1590	1620	1230
MIN	172	363	490	1260	1480	1250	1240	913	790	633	580	477
CFSM	.21	.27	.82	3.03	3.20	1.34	1.62	.89	.67	.61	.63	.46
IN.	.24	.31	.94	3.49	3.34	1.55	1.80	1.03	.75	.70	.73	.51

CAL YR 1981 TOTAL 321601 MEAN 881 MAX 13400 MIN 172 CFSM .62 IN 8.37
WTR YR 1982 TOTAL 591491 MEAN 1621 MAX 22200 MIN 172 CFSM 1.13 IN 15.39

02196820 BUTLER CREEK AT FORT GORDON, GA.

LOCATION.--Lat 33°26'33", long 82°07'43", Richmond County, Hydrologic Unit 03060106, on upstream side of old bridge 600 ft (183 m) upstream from U.S. Highways 78 and 278 at Fort Gordon.
DRAINAGE AREA.--7.5 mi^2 (19.4 km^2).
PERIOD OF RECORD.--October 1968 to current year.
GAGE.--Water-eSage recorder. Altitude of gage is 280 ft (85 m), from topographic map.
REMARKS.--Records fair except those for periods of no gage-height record, Mar. 16 to Apr. 7, May 9-19, Aug. 13 to Sept. 1, and Sept. 11-24, which are poor.
AVERAGE DISCHARGE.--14 years, 8.14 ft^3/s (0.231 m^3/s), 14.74 in/yr (374 mm/yr).
EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 7.00 ft (2.134 m), from floodmark, Mar. 3, 1971 (discharge not determined); minimum daily discharge, 0.10 ft^3/s (0.003 m^3/s) June 29, July 21, 1969.
EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 150 ft^3/s (4.24 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Dec. 31	1815	*265	7.50	4.95	1.509	Aug. 6	0045	166	4.70	3.87	1.180

Minimum daily discharge, 0.54 ft^3/s (0.015 m^3/s) Oct. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.68	2.7	6.8	47	17	11	6.6	7.3	5.0	1.8	1.0	.83
2	.61	2.7	7.8	19	9.9	9.2	6.4	6.5	3.3	1.2	1.3	.83
3	.54	2.8	4.7	28	43	8.6	6.5	5.8	2.7	1.1	.91	.86
4	.58	2.8	3.8	35	22	8.2	6.3	5.2	3.7	.93	.82	1.0
5	.72	2.7	3.5	19	15	8.0	6.2	4.8	5.3	.82	16	1.3
6	.84	2.8	3.5	15	13	8.1	12	4.6	3.0	.82	40	1.2
7	.78	2.6	3.5	14	11	23	10	4.4	2.2	.96	4.6	1.2
8	.60	2.6	3.4	13	10	13	6.7	4.3	1.8	1.0	3.2	1.1
9	.78	2.7	3.2	11	11	9.3	12	4.1	1.6	8.9	4.2	1.1
10	3.8	3.0	3.2	10	15	8.4	18	3.8	1.4	23	2.7	1.7
11	3.5	3.0	3.2	8.5	10	8.0	8.4	3.4	1.4	7.7	2.4	2.3
12	1.9	2.8	3.4	8.5	11	7.7	7.2	3.0	1.4	3.2	2.4	2.1
13	1.5	2.7	3.4	12	19	7.3	6.1	2.7	2.3	2.1	2.4	1.8
14	1.4	2.8	23	21	11	7.0	5.6	2.4	2.2	1.6	2.3	1.5
15	1.4	2.9	73	17	10	6.6	5.7	2.3	1.7	1.6	2.1	1.3
16	1.4	3.2	19	15	15	10	6.2	2.1	1.5	1.7	2.0	1.2
17	1.4	4.0	9.5	13	44	14	5.8	2.0	1.4	3.5	3.0	1.2
18	1.4	3.3	9.7	10	18	25	6.0	2.0	1.6	3.6	4.0	3.0
19	1.5	3.0	7.0	11	14	15	6.5	3.0	1.5	2.9	3.0	2.0
20	1.4	3.3	5.6	11	12	11	5.3	5.3	1.2	2.3	2.6	1.6
21	1.4	3.0	5.3	9.9	10	9.5	17	3.4	1.0	1.9	2.2	1.5
22	1.4	2.9	5.6	8.4	9.4	8.8	7.4	2.6	2.0	1.3	1.8	1.7
23	1.5	3.0	5.5	15	8.9	8.1	5.9	6.8	2.9	.74	1.5	1.5
24	1.7	4.6	6.8	17	8.6	7.5	4.8	19	1.7	.67	1.3	1.3
25	16	4.0	64	10	8.1	9.2	42	28	1.3	.85	1.1	1.2
26	17	3.4	18	8.5	8.6	8.0	45	9.3	1.5	.87	1.1	1.2
27	7.6	3.3	18	7.6	19	7.5	27	9.4	9.8	.80	1.0	1.5
28	4.0	3.3	15	7.7	15	7.0	16	5.2	9.1	.67	1.0	1.4
29	3.0	3.1	28	7.5	---	6.8	11	3.5	3.6	.89	.90	1.2
30	2.8	4.4	13	7.3	---	7.0	8.2	13	2.8	1.6	.85	1.1
31	2.8	---	108	11	---	6.8	---	14	---	1.0	.85	---
TOTAL	85.93	93.4	487.4	447.9	418.5	304.6	337.8	193.2	81.9	82.02	114.53	42.72
MEAN	2.77	3.11	15.7	14.4	14.9	9.83	11.3	6.23	2.73	2.65	3.69	1.42
MAX	17	4.6	108	47	44	25	45	28	9.8	23	40	3.0
MIN	.54	2.6	3.2	7.3	8.1	6.6	4.8	2.0	1.0	.67	.82	.83
CFSM	.37	.42	2.09	1.92	1.99	1.31	1.51	.83	.36	.35	.49	.19
IN.	.43	.46	2.42	2.22	2.08	1.51	1.68	.96	.41	.41	.57	.21

CAL YR 1981 TOTAL 2083.58 MEAN 5.71 MAX 114 MIN .46 CFSM .76 IN 10.33
WTR YR 1982 TOTAL 2689.90 MEAN 7.37 MAX 108 MIN .54 CFSM .98 IN 13.34

02197000 SAVANNAH RIVER AT AUGUSTA, GA.

LOCATION.--Lat 33°22'25", long 81°56'35", Richmond County, Ga.-Aiken County, S.C., Hydrologic Unit 03060106, at New Savannah Bluff lock and dam, 0.2 mi (0.3 km) upstream from Butler Creek, 12.0 mi (19.3 km) downstream from Augusta, and at mile 187.4 (301.5 km).

DRAINAGE AREA.--7,508 mi^2 (19,446 km^2), including that of Butler Creek.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1883 to December 1891, January 1896 to December 1906, January 1925 to current year. Monthly discharge only for some periods, published in WSP 1303. Gage-height records collected at site of Fifth Street gage from 1875 to 1952 and at New Savannah Bluff lock and dam sites since 1937 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 1303: 1927-39 (monthly runoff). WSP 1433: 1888, 1896-99, 1902-03, 1906-07, and 1932(M). WDR SC-77-1: 1975.

GAGE.--Water-stage recorder. Datum of gage is 96.58 ft (29.438 m), National Geodetic Vertical Datum of 1929 (U.S. Army Corps of Engineers bench mark). Oct. 1, 1883 to Dec. 31, 1891, Jan. 1, 1896 to Dec. 31, 1906, Jan. 1, 1925 to Sept. 30, 1932, nonrecording or recording gage at Fifth Street Bridge at datum 102.06 ft (31.11 m), NGVD (levels by Southeastern Engineering Co.). Oct. 1, 1932 to Sept. 30, 1936, recording gage at Thirteenth Street Bridge at datum 104.56 ft (31.87 m), NGVD (levels by U.S. Army Corps of Engineers). Oct. 1, 1936 to Nov. 10, 1948, recording gage at site 0.2 mi (0.3 km) downstream from present site and at present datum.

REMARKS.--Records good. Flow regulated by Lake Burton, Mathis Reservoir, Hartwell Lake, and Clarks Hill Reservoir. (See "Lakes and Reservoirs in Savannah River Basin," stations 02178500, 02179500, 02187250, and 02194500). Records of chemical analyses for the water years 1968-72 are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--75 years (1884-91, 1897-1906, 1926-82), 10,200 ft^3/s (288.9 m^3/s), 18.45 in/yr (469 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 350,000 ft^3/s (9,910 m^3/s) Oct. 3, 1929; maximum gage height, 46.3 ft (14.11 m) Sept. 27, 1929 (at site and datum then in use); minimum discharge, 648 ft^3/s (18.4 m^3/s) Sept. 24, 1939, from rating curve extended below 1,400 ft^3/s (39.6 m^3/s); minimum daily, 1,040 ft^3/s (29.5 m^3/s) Oct. 2, 1927.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum flood known occurred in 1796, discharge, 360,000 ft^3/s (10,200 m^3/s), gage height, 40 ft (12.2 m), marked by local residents, at site and datum of Fifth Street gage, by conveyance-slope study.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 30,700 ft^3/s (869 m^3/s) Jan. 2, gage height, 19.39 ft (5.910 m); minimum daily discharge, 2,810 ft^3/s (79.6 m^3/s) Dec. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5210	4760	3100	17800	5410	10800	6470	7160	5910	5530	5350	5570
2	5300	5110	4320	24000	5560	15500	6470	4650	5860	5590	5420	5720
3	5530	4580	4260	15100	8670	15300	5720	5460	6050	5780	5460	6000
4	5800	4600	4630	10700	13200	14800	5160	5970	6830	5570	5460	5990
5	5520	5910	4130	14300	18000	14200	5160	6040	5980	5290	5490	5320
6	5400	7530	4030	20600	9670	9640	5790	7480	5630	5360	5630	5320
7	5340	4870	2810	11700	6250	5490	6710	6900	5610	5690	6010	5360
8	5580	4740	3000	7850	5690	5980	7730	6660	5630	5620	5850	5640
9	5450	4240	3360	7890	7780	7930	9080	5770	5750	5370	6720	6080
10	5570	4260	4320	5930	8270	7580	6820	5470	5900	5610	7390	7260
11	5660	4140	6350	6990	7130	7170	5000	5530	5860	5740	7530	6970
12	6090	4140	6570	11900	8910	7140	5140	5790	5950	5670	6970	6170
13	5180	4630	5600	10300	8320	6820	5070	6290	5720	5730	5950	6200
14	5090	4820	5780	7090	6140	5470	5570	6840	5370	5770	5680	8160
15	5290	5040	5720	8380	7150	5200	6500	7040	5870	5770	5180	7990
16	5140	4080	5750	7650	7260	5500	8660	6020	5880	5980	5620	10300
17	5200	4040	8370	5580	15000	6180	6210	5260	5860	6060	5790	8010
18	5750	3880	6190	5160	25500	7770	5300	5620	6050	6070	5770	7620
19	5680	4020	5530	7000	22100	7600	5140	5680	6190	5850	6340	6350
20	5130	3860	5400	7570	18000	6980	5750	5720	6160	5980	6100	6020
21	4990	5240	5230	6140	12300	5570	9150	5550	6050	6160	5820	5930
22	5030	5540	5060	6260	11800	5490	10900	5850	6900	6350	5590	7910
23	4960	5140	4650	6160	15000	6390	10300	5990	6100	6810	5430	8310
24	5010	3710	4880	5440	15500	6900	7530	6560	5720	6190	5500	7900
25	5060	4740	5910	6180	16000	6720	5790	7240	5910	5670	6290	6440
26	6170	4590	13800	8280	15700	6830	7910	6100	6110	5950	8890	6100
27	4950	4450	11000	9640	14400	6370	18900	6330	6360	6260	6140	5830
28	4830	4220	7110	9100	10500	5470	19700	6560	6390	7880	5830	7310
29	4720	4110	5850	8060	---	5530	16100	5970	6100	7180	5550	9410
30	4750	3740	6990	5630	---	6240	13200	5760	5860	5950	5440	8450
31	4740	---	9900	5350	---	6590	---	5970	---	5460	5430	---
TOTAL	164120	138730	179600	289730	325210	241150	242930	189230	179560	183890	185620	205660
MEAN	5294	4624	5794	9346	11610	7779	8098	6104	5985	5932	5988	6855
MAX	6170	7530	13800	24000	25500	15500	19700	7480	6900	7880	8890	10300
MIN	4720	3710	2810	5160	5410	5200	5000	4650	5370	5290	5180	5320

CAL YR 1981 TOTAL 2161200 MEAN 5921 MAX 15600 MIN 2810 MEAN† 5127 CFSM† 0.63 IN† 9.27
WTR YR 1982 TOTAL 2525430 MEAN 6919 MAX 25500 MIN 2810 MEAN† 8278 CFSM† 1.10 IN† 14.97

† ADJUSTED FOR CHANGE IN CONTENTS IN LAKE BURTON, MATHIS RESERVOIR, HARTWELL LAKE, AND CLARKS HILL RESERVOIR.

02197000 SAVANNAH RIVER AT AUGUSTA, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1949 to September 1950, February 1968 to September 1972, July 1973 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October 1973 to current year.

INSTRUMENTATION.--Water-temperature recorder since October 1973.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 26.5°C Aug. 14-17, 1981; minimum, 4.5°C Jan. 30, 31, Feb. 2, 4, 1977, Feb. 19, 20, 1979, Jan. 12, 1982.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 23.5°C July 21; minimum, 4.5°C Jan. 12.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	23.0	22.5	18.0	17.5	16.0	15.0	8.5	7.5	10.0	9.0	8.0	7.5
2	23.0	22.5	18.0	17.5	15.5	14.5	8.0	7.5	10.0	9.5	9.0	8.0
3	22.5	21.5	18.5	18.0	14.5	14.0	9.0	8.0	9.5	8.0	9.5	9.0
4	21.5	20.5	19.0	18.0	14.0	13.5	9.5	9.0	8.5	8.0	9.5	9.0
5	21.0	20.5	19.5	19.0	13.5	13.0	10.0	9.0	9.0	8.5	10.0	9.5
6	21.5	21.0	19.5	19.0	13.0	12.5	10.0	9.5	9.5	9.0	10.5	10.0
7	21.5	20.5	18.5	18.0	13.0	12.5	10.5	9.5	9.5	9.0	11.0	10.5
8	21.0	20.5	18.0	17.0	13.0	12.5	11.0	10.5	9.5	9.0	11.5	11.0
9	20.5	20.0	17.0	17.0	12.5	12.5	10.5	9.5	10.0	9.0	11.5	10.0
10	20.0	19.0	17.0	17.0	12.5	11.5	9.5	8.0	9.5	9.0	12.0	10.5
11	19.5	19.0	17.0	16.5	11.5	10.5	8.0	5.0	9.5	9.0	12.5	11.0
12	19.0	19.0	17.0	16.5	11.0	10.0	7.0	4.5	9.5	8.5	12.5	11.5
13	19.0	18.5	17.0	16.0	11.0	11.0	7.0	6.5	9.0	8.5	13.0	12.0
14	19.0	18.5	16.0	15.5	11.0	11.0	7.0	6.0	9.5	8.5	13.5	13.0
15	19.0	18.5	15.5	15.0	11.5	11.0	6.0	6.0	10.0	9.0	14.5	13.5
16	19.5	19.0	15.0	14.5	11.0	10.0	7.0	6.0	10.5	9.5	14.5	13.0
17	20.0	19.0	15.5	14.5	10.0	8.0	7.0	6.0	11.0	10.0	13.0	12.5
18	20.5	20.0	16.0	15.0	10.0	8.5	6.5	6.0	11.0	10.0	12.0	11.5
19	20.5	19.5	16.0	15.5	10.0	9.5	7.0	6.0	10.0	9.0	13.0	12.0
20	19.5	18.5	16.0	15.5	9.5	9.0	8.5	7.0	9.5	8.5	14.0	13.0
21	18.5	18.5	16.0	15.5	9.0	8.5	9.5	8.0	9.5	9.0	15.0	14.0
22	19.0	18.5	15.5	14.0	10.0	9.0	9.5	9.0	10.0	9.5	16.0	15.5
23	19.5	19.0	14.0	13.5	10.5	10.0	9.0	8.5	9.5	9.0	16.0	15.0
24	19.5	18.5	14.0	13.5	11.5	11.0	8.5	8.0	10.0	9.0	15.0	13.0
25	18.5	17.0	14.0	13.5	12.5	11.5	8.0	7.5	9.5	9.5	13.5	12.5
26	17.0	16.5	14.5	14.0	11.0	9.0	7.5	7.0	9.5	8.0	13.0	12.5
27	18.0	17.0	15.0	14.0	9.5	9.0	7.0	6.5	8.0	7.5	13.0	12.5
28	18.5	17.5	15.5	14.5	10.0	9.0	7.0	6.5	7.5	7.5	12.5	12.0
29	19.0	18.5	16.0	15.5	10.5	10.0	7.5	6.5	---	---	12.5	12.0
30	19.0	18.5	16.0	15.5	10.5	10.0	8.0	7.0	---	---	13.0	12.5
31	18.5	18.0	---	---	10.0	9.0	9.0	8.0	---	---	13.0	12.5
MONTH	23.0	16.5	19.5	13.5	16.0	8.0	11.0	4.5	11.0	7.5	16.0	7.5

02197000 SAVANNAH RIVER AT AUGUSTA, GA.--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	13.5	13.0	16.0	14.5	21.5	20.0	21.5	20.5	22.0	21.5	22.5	21.5
2	13.5	13.0	17.5	15.5	20.5	19.5	22.0	21.0	22.0	21.0	21.5	21.0
3	14.0	13.5	18.0	17.0	20.5	19.5	22.0	21.0	21.5	21.0	22.0	21.5
4	14.5	14.0	18.0	17.0	20.0	18.5	22.0	21.0	22.5	21.5	22.0	21.5
5	14.5	13.5	18.0	17.0	19.0	17.5	22.0	21.5	22.5	21.5	22.0	21.5
6	14.0	13.5	17.5	16.5	19.0	18.5	23.0	22.0	22.0	21.0	22.0	21.5
7	13.5	12.5	17.0	15.5	20.0	19.0	23.0	21.0	21.5	21.0	22.0	21.5
8	13.5	12.5	17.0	16.0	21.0	20.0	21.5	20.0	22.5	21.5	22.0	21.5
9	13.0	12.5	17.0	16.5	21.0	20.5	21.0	20.0	23.0	22.0	21.5	20.5
10	13.5	12.0	18.0	16.5	20.5	20.0	21.0	19.5	22.5	21.0	21.0	20.0
11	14.5	13.0	19.0	18.0	20.5	19.5	20.5	20.0	22.0	20.0	20.0	19.5
12	15.0	14.5	18.5	18.0	20.5	20.0	21.0	20.0	21.0	19.5	20.0	20.0
13	15.5	15.0	18.0	17.5	20.5	19.5	22.0	21.0	21.5	21.0	21.0	20.0
14	16.5	15.5	18.5	16.5	20.5	20.0	22.5	21.5	21.5	21.5	21.0	20.0
15	16.0	15.5	18.0	16.5	21.0	20.5	22.0	21.0	22.0	21.0	21.0	19.5
16	16.0	15.0	18.5	17.0	21.5	20.0	21.0	20.5	23.0	22.0	21.0	20.0
17	15.5	14.0	18.5	18.0	21.0	20.0	21.5	21.0	23.5	22.0	22.0	20.0
18	17.0	16.0	19.5	18.5	20.0	19.5	21.5	20.5	22.5	21.0	21.5	20.5
19	17.0	17.0	19.5	18.5	20.0	19.5	22.0	21.0	21.0	20.5	21.5	21.0
20	17.0	16.0	19.0	18.5	20.5	19.5	22.5	22.0	21.0	20.0	22.5	21.5
21	15.5	14.0	18.5	18.0	20.5	19.5	23.5	21.5	22.0	21.5	22.5	22.0
22	14.5	13.5	19.5	18.0	20.5	19.0	22.5	21.0	22.5	22.0	22.0	20.5
23	14.0	13.0	20.0	19.0	20.0	18.5	22.5	20.5	22.5	22.0	20.5	19.5
24	14.5	13.0	20.0	18.0	20.5	19.5	22.0	20.0	23.0	22.5	20.0	19.0
25	15.0	14.0	19.0	17.5	21.0	20.0	21.0	21.0	23.0	22.5	20.0	19.5
26	16.0	15.5	19.0	18.5	20.5	19.5	21.5	21.0	22.5	21.0	20.0	19.5
27	15.5	13.5	19.5	19.0	20.0	19.5	22.5	21.0	21.5	20.5	20.0	19.5
28	15.5	14.0	19.0	18.0	20.0	19.0	22.5	20.5	22.5	22.0	20.5	19.5
29	14.5	14.0	20.0	18.0	20.5	20.0	21.0	19.5	22.5	22.0	20.5	19.5
30	15.0	14.5	20.5	20.0	21.0	20.0	21.0	19.5	22.5	22.0	20.5	19.5
31	---	---	20.5	19.5	---	---	21.5	21.0	22.5	22.0	---	---
ONTH	17.0	12.0	20.5	14.5	21.5	17.5	23.5	19.5	23.5	19.5	22.5	19.0
EAR	23.5	4.5										

02197320 SAVANNAH RIVER NEAR JACKSON, S.C.

LOCATION.--Lat 33°13'01", long 81°46'04", Aiken County, S.C.-Burke County, Ga., Hydrologic Unit 03060106, on left bank 1.4 mi (2.3 km) downstream from Upper Three Runs Creek, 6.2 mi (10.0 km) south of Jackson, 15.2 mi (24.5 km) upstream from Steel Creek, and at mile 156.8 (252.3 km).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1971 to current year, discharge defined below 20,000 ft^3/s (566 m^3/s), only.

GAGE.--Water-stage recorder. Datum of gage is 77.0 ft (23.47 m), National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Flow regulated by Lake Burton, Mathis Reservoir, Hartwell Lake, and Clarks Hill Reservoir. (See "Lakes and Reservoirs in Savannah River Basin," stations 02178500, 02179500, 02187250, and 02194500.)

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, undetermined, Apr. 1, 1980; maximum gage height, 20.74 ft (6.322 m) Apr. 1, 1980; minimum daily discharge, 3,220 ft^3/s (91.2 m^3/s) Dec. 9, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 20,500 ft^3/s (581 m^3/s) Feb. 20; maximum gage height, 17.12 ft (5.218 m) Feb. 13; minimum daily discharge, 3,220 ft^3/s (91.1 m^3/s) Dec. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5200	4660	3510	13600	5680	11200	6620	13600	5830	5600	5490	5520
2	5050	4770	3450	18100	5760	13500	6550	6970	5950	5460	5420	5550
3	5070	4660	4820	19500	6370	15900	6280	5410	5770	5560	5390	5590
4	5300	4450	4120	16800	12100	16100	5480	5800	6580	5520	5370	5710
5	5270	4680	4530	14700	14600	15900	5230	5970	6630	5320	5390	5490
6	5160	6330	4040	17200	14500	14200	5400	6680	5970	5390	5630	5150
7	5080	6310	3630	17800	9860	9020	5970	7280	5630	5490	5950	5140
8	5040	4800	3230	13100	6790	6380	7390	6790	5560	5690	6020	5260
9	5130	4760	3220	9260	6800	7840	8130	6260	5600	5430	5970	5560
10	5170	4500	3640	7990	8480	8350	8750	5650	5670	5360	7130	6150
11	5340	4340	4530	5910	7850	7860	5830	5460	5720	5600	7430	7030
12	5510	4210	6500	10600	8100	7510	5200	5600	5730	5620	7390	6330
13	5490	4390	5590	12200	9310	7330	5180	5930	5850	5610	6590	5820
14	5040	4620	5380	8970	7530	6220	5120	6460	5590	5860	5990	6520
15	4920	4800	5780	8590	6910	5540	5770	6850	5560	5710	5710	8350
16	4990	4720	6040	9020	7770	5440	7420	6360	5760	5780	5350	8440
17	4900	4150	7630	7340	8750	5850	7560	5630	5720	6040	5560	9480
18	5090	3970	8020	5690	16700	7790	5770	5490	5810	6120	5680	7690
19	5390	3930	5950	6260	19500	8230	5470	5800	5960	5860	6040	7180
20	5180	3850	5610	7800	20400	7900	5440	5740	6030	5790	6270	6590
21	4790	4360	5240	7310	19100	6520	7350	5640	5860	5940	5930	6260
22	4760	4890	5060	6620	15100	5680	10200	5600	6270	6150	5650	6380
23	4750	5390	4750	6630	14400	5970	11000	5780	6380	6440	5400	8500
24	4740	4060	4670	6450	14400	6650	9770	6160	5950	6450	5330	8060
25	4850	3970	5150	6140	14400	6880	6620	7380	5820	5840	5530	7050
26	5450	4620	9960	7920	14400	6880	6090	6780	5790	5880	7370	6150
27	5540	4380	12800	9320	14400	6890	13400	6460	6080	6050	7360	5740
28	4920	4230	9940	10100	14000	6030	17600	6700	6450	6760	5790	6180
29	4760	4050	6490	9620	---	5530	18400	6260	6230	7970	5560	8010
30	4660	4040	6620	7340	---	5990	17100	5810	6030	6560	5550	9180
31	4660	---	7860	5770	---	6480	---	5890	---	6060	5480	---
TOTAL	157200	136890	177760	313650	323960	257560	242090	198190	177780	182910	184720	200060
MEAN	5071	4563	5734	10120	11570	8308	8070	6393	5926	5900	5959	6669
MAX	5540	6330	12800	19500	20400	16100	18400	13600	6630	7970	7430	9480
MIN	4660	3850	3220	5690	5680	5440	5120	5410	5560	5320	5330	5140

CAL YR 1981 TOTAL 2208100 MEAN 6050 MAX 17000 MIN 3220 MEAN† 5256
WTR YR 1982 TOTAL 2552770 MEAN 6994 MAX 20400 MIN 3220 MEAN† 8353

† ADJUSTED FOR CHANGE IN CONTENTS IN LAKE BURTON, MATHIS RESERVOIR, HARTWELL LAKE, AND CLARKS HILL RESERVOIR.

02197320 SAVANNAH RIVER NEAR JACKSON, S.C.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1972 to June 1974.
PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1971 to current year.
INSTRUMENTATION.--Water-temperature recorder since October 1971.
EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 26.5°C July 21, 1981; minimum, 4.5°C Jan. 19, 20, 22, 23, Feb. 1, 1977, Feb. 9, 1978, Jan. 12, 1982.
EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 25.0°C July 22, Aug. 24-26; minimum, 4.5°C Jan. 12.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	23.0	22.5	18.0	17.5	14.5	14.0	9.0	8.5	10.0	8.0	8.0	7.5
2	23.0	22.5	18.0	17.5	15.0	14.0	8.0	7.5	10.0	9.5	8.5	7.5
3	22.5	21.5	18.5	18.0	14.5	13.0	8.5	8.0	10.0	9.5	9.5	8.5
4	21.5	20.5	19.0	18.5	13.0	12.5	9.5	8.5	10.0	9.0	10.0	9.5
5	21.0	20.0	19.5	19.0	12.5	12.0	9.5	9.0	9.0	8.5	10.5	10.0
6	21.5	20.5	19.5	19.0	12.0	11.0	10.0	8.5	8.5	8.5	11.5	10.5
7	21.5	21.0	19.0	18.0	11.5	11.0	9.5	9.0	10.5	8.5	12.0	11.5
8	21.0	20.5	17.5	17.0	12.0	11.0	10.0	9.5	10.5	9.5	11.5	10.5
9	20.5	20.5	17.0	16.5	11.5	10.5	10.0	9.5	10.0	9.0	11.5	10.5
10	20.5	19.5	17.0	16.5	10.5	10.0	9.0	7.0	10.5	10.0	12.0	10.5
11	19.5	19.0	17.0	16.5	10.0	9.5	7.0	6.0	10.5	9.5	13.0	11.5
12	19.5	19.0	16.5	16.0	9.5	9.0	6.0	4.5	10.0	9.5	14.0	12.5
13	19.0	18.5	15.5	15.0	9.5	8.5	6.0	5.0	9.5	9.0	14.5	13.0
14	19.0	18.5	15.0	14.5	10.0	9.5	5.5	5.5	9.5	9.0	15.0	13.5
15	19.5	18.5	14.5	14.0	10.0	9.5	5.5	5.0	9.5	8.5	15.5	14.5
16	19.5	19.0	14.5	14.0	9.5	9.0	5.5	5.0	10.5	9.0	15.5	14.5
17	20.0	19.5	14.5	14.0	9.0	8.5	6.0	5.0	11.5	10.0	15.0	14.5
18	20.5	20.0	15.0	14.0	8.5	8.0	6.0	5.0	12.5	10.5	14.5	13.5
19	20.0	19.5	15.0	14.0	8.0	8.0	7.0	6.5	10.5	10.0	14.0	13.0
20	19.5	18.5	16.0	15.0	7.5	7.0	8.0	7.0	10.5	10.0	15.5	14.0
21	18.5	18.0	14.5	14.0	7.5	6.5	9.5	8.0	10.5	10.0	16.5	15.0
22	18.5	18.0	14.0	13.5	9.0	7.5	9.5	9.5	11.0	10.5	16.5	16.0
23	19.5	18.5	13.5	13.0	10.5	9.0	9.5	9.5	10.5	9.5	16.5	16.0
24	19.0	18.0	13.0	12.5	10.5	10.5	9.5	9.0	10.0	9.5	16.5	15.0
25	18.0	17.0	13.0	12.0	11.0	10.5	9.0	8.0	10.0	9.5	15.0	14.0
26	17.0	17.0	13.0	12.5	11.0	9.5	8.0	7.5	10.0	9.0	14.5	14.0
27	17.5	17.0	14.0	13.0	9.5	9.0	8.0	7.0	9.0	7.5	14.0	12.5
28	18.0	17.0	15.0	14.0	9.5	9.0	7.0	6.5	7.5	7.0	13.0	12.0
29	18.5	17.5	15.0	14.0	10.5	9.5	6.5	6.0	---	---	13.0	12.0
30	18.5	18.0	15.0	14.5	10.0	9.5	7.0	6.5	---	---	14.0	12.5
31	18.5	18.0	---	---	9.5	9.0	8.0	7.0	---	---	14.0	13.0
MONTH	23.0	17.0	19.5	12.0	15.0	6.5	10.0	4.5	12.5	7.0	16.5	7.5

02197320 SAVANNAH RIVER NEAR JACKSON, S.C.--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	15.0	13.5	16.0	15.5	22.5	21.0	23.0	22.5	23.0	23.0	24.5	23.5
2	15.0	14.5	17.5	16.0	22.5	22.5	23.0	22.5	23.5	23.0	24.0	23.5
3	15.5	14.5	18.5	17.0	22.5	21.5	23.5	23.0	23.5	23.0	24.0	23.5
4	15.0	14.5	19.0	18.5	21.5	20.5	23.5	23.0	23.5	23.0	24.0	23.5
5	15.0	14.0	19.0	18.0	21.0	19.5	23.5	23.0	24.0	23.5	24.0	23.5
6	14.5	14.0	18.5	18.0	21.0	19.5	24.0	23.5	23.5	23.0	24.0	23.5
7	14.0	13.0	18.5	17.0	21.0	20.0	24.0	23.5	23.5	23.0	23.5	23.0
8	13.5	12.5	18.0	16.5	22.0	20.5	24.0	23.0	24.0	23.0	23.5	23.0
9	13.5	12.0	18.0	17.0	22.5	22.0	23.0	22.0	24.0	23.5	23.5	22.5
10	13.0	12.5	18.5	17.5	22.5	22.0	22.0	21.5	24.5	23.0	23.0	22.0
11	14.5	12.5	19.5	18.5	22.0	21.5	22.5	22.0	24.0	23.0	22.5	21.5
12	15.0	13.5	19.5	19.5	22.0	21.0	22.5	21.5	23.5	21.5	22.0	21.5
13	16.0	15.5	19.5	19.0	22.0	20.5	23.0	22.0	23.0	22.0	22.5	22.0
14	17.0	16.0	19.5	18.5	22.0	21.0	23.5	23.0	23.5	22.5	23.0	22.0
15	17.0	16.5	19.5	18.0	22.0	21.5	23.5	23.0	24.0	23.0	23.0	22.0
16	17.0	16.0	19.5	18.0	23.0	21.5	23.5	22.5	24.5	23.5	23.0	22.5
17	17.0	16.0	19.5	18.5	23.0	21.0	22.5	22.0	24.5	23.5	22.5	22.0
18	17.0	16.0	20.5	19.5	21.5	21.0	23.0	22.5	24.5	23.5	24.0	22.5
19	17.0	16.5	20.5	20.0	21.5	20.5	23.5	22.5	23.5	23.0	23.5	22.5
20	17.5	16.5	20.5	20.0	21.5	21.0	24.0	22.5	23.0	22.0	23.5	22.5
21	17.5	16.5	20.5	20.0	22.0	21.0	24.5	23.5	23.5	22.5	23.5	23.0
22	16.0	14.5	20.5	19.5	22.0	20.5	25.0	23.5	24.0	23.5	23.0	22.5
23	14.5	14.0	21.0	20.0	22.0	20.5	24.0	22.5	24.5	24.0	22.5	21.0
24	14.5	13.5	21.0	20.0	21.5	20.5	23.5	22.5	25.0	24.0	21.5	20.5
25	15.0	14.0	21.0	19.0	22.0	21.0	23.0	22.0	25.0	24.5	21.0	20.0
26	17.0	14.5	20.5	19.0	22.5	21.5	23.5	23.0	25.0	24.0	21.0	20.5
27	17.0	14.5	21.0	20.0	22.0	21.0	24.0	23.0	24.0	23.5	21.0	20.0
28	15.0	14.0	21.0	20.5	21.5	20.5	24.0	23.0	24.5	23.0	21.0	20.5
29	15.5	15.0	21.0	20.0	22.0	20.5	23.5	22.0	24.5	24.0	21.5	20.5
30	15.5	15.0	21.0	20.5	22.5	21.5	23.0	21.5	24.5	23.5	21.0	20.5
31	---	---	22.0	21.0	---	---	23.0	21.5	24.0	23.5	---	---
MONTH	17.5	12.0	22.0	15.5	23.0	19.5	25.0	21.5	25.0	21.5	24.5	20.0
YEAR	25.0	4.5										

02197370 SAVANNAH RIVER BELOW STEEL CREEK, NEAR MILLET, S.C.

LOCATION.--Lat 33°04'58", long 81°35'54", Allendale County, S.C.-Burke County, Ga., Hydrologic Unit 3060106, on left bank 2.8 mi (4.5 km) downstream from Steel Creek, 12.6 mi (20.3 km) upstream from Lower Three Runs, 3.7 mi (6.0 km) west of Millet, and at mile 138.8 (223.3 km).
PERIOD OF RECORD.--Water years 1972 to current year.
PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October 1971 to current year.
INSTRUMENTATION.--Water-temperature recorder since October 1971.
EXTREMES FOR PERIOD OF RECORD.--
WATER TEMPERATURE: Maximum, 29.0°C June 23, 1981; minimum, 4.0°C Jan. 20, 1977.

Published in Water Resources Data South Carolina Water Year 1982.

02197520 BRIER CREEK NEAR THOMSON, GA.

LOCATION.--Lat 33°22'06", long 82°28'06", McDuffie County, Hydrologic Unit 03060108, on downstream side of bridge on State Highway 17, 0.2 mi (0.3 km) upstream from Sweetwater Creek, and 6.9 mi (11.1 km) south of Thomson.

DRAINAGE AREA.--55 mi^2 (142 km^2), approximately.

PERIOD OF RECORD.--July 1967 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 300 ft (101 m), from topographic map.

REMARKS.--Records fair except those of beaverdam effect, Nov. 6 to Dec. 13 and Aug. 20 to Sept. 30, which are poor.

AVERAGE DISCHARGE.--15 years, 47.8 ft^3/s (1.353 m^3/s), 11.80 in/yr (300 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,810 ft^3/s (136 m^3/s) Mar. 3, 1971, gage height, 18.09 ft (5.514 m), from floodmark; minimum daily, 0.24 ft^3/s (0.007 m^3/s) Sept. 24, 1968.

EXTREMES OUTSIDE PERIOD OF RECORD.--A discharge of 0.007 ft^3/s (0.0002 m^3/s) was measured on Oct. 14, 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,000 ft^3/s (28.3 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 1	0100	*2210	62.6	13.54	4.127	Feb. 3	2100	1030	29.2	10.21	3.112

Minimum daily discharge, 0.66 ft^3/s (0.019 m^3/s) Oct. 2, 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.91	2.3	5.0	1010	151	74	34	43	9.0	3.4	6.3	1.6
2	.66	2.6	4.2	183	84	63	30	38	6.2	4.0	5.6	1.5
3	.75	2.6	3.3	230	458	58	32	33	4.8	8.5	4.3	4.5
4	.78	2.3	2.5	327	501	53	28	28	14	5.3	3.6	3.5
5	.71	2.4	2.4	202	150	49	46	24	23	4.4	4.1	2.9
6	.76	2.4	2.3	118	119	49	89	21	10	4.5	7.4	2.3
7	.81	2.3	2.3	98	92	173	45	19	6.3	5.9	5.1	1.8
8	.66	2.3	2.2	84	79	131	46	20	4.7	25	5.0	1.6
9	.78	2.2	2.2	75	75	76	111	18	3.6	30	4.9	1.4
10	2.6	3.7	2.2	63	82	64	57	15	3.3	140	4.0	1.3
11	3.6	3.5	2.3	52	67	59	42	13	3.8	33	11	1.2
12	1.3	2.8	2.2	50	62	55	35	11	3.1	17	12	2.5
13	1.1	2.4	2.2	60	127	50	31	9.9	5.7	9.7	12	1.8
14	.94	2.2	28	109	89	47	28	8.9	4.1	6.8	7.1	1.5
15	1.1	2.2	166	110	71	44	27	8.1	3.6	67	4.8	1.3
16	1.1	2.2	94	105	161	66	37	7.7	3.1	185	4.8	1.2
17	1.1	2.5	41	107	521	128	30	7.3	2.5	184	7.1	1.2
18	.99	2.3	32	77	220	360	35	13	2.5	39	9.6	1.1
19	.97	2.2	24	75	129	124	26	9.7	2.3	21	7.1	1.1
20	.99	2.1	19	84	103	90	73	8.2	1.8	14	5.7	1.1
21	1.0	2.1	17	75	88	72	68	8.8	2.2	11	5.2	1.1
22	.99	2.1	17	65	72	61	43	7.1	3.2	9.1	4.7	1.1
23	1.0	2.3	17	80	63	53	32	6.5	4.9	6.7	5.0	1.2
24	1.4	2.5	18	157	60	50	26	11	3.0	6.2	5.0	1.1
25	7.7	4.0	372	88	56	56	63	9.8	11	5.6	4.1	1.2
26	21	3.0	216	69	50	49	281	7.8	3.2	5.5	3.5	1.3
27	19	2.5	118	57	83	40	230	8.5	3.2	4.7	3.0	1.2
28	6.8	2.3	113	54	110	36	114	9.6	6.6	4.4	2.5	1.2
29	3.5	2.2	184	52	---	34	70	6.5	3.5	5.6	2.2	1.1
30	2.5	2.2	100	50	---	35	53	7.1	3.1	4.9	2.0	1.1
31	2.2	---	718	60	---	33	---	19	---	4.5	1.8	---
TOTAL	89.70	74.7	2329.3	4026	3923	2332	1862	457.5	161.3	875.7	170.5	48.0
MEAN	2.89	2.49	75.1	130	140	75.2	62.1	14.8	5.38	28.2	5.50	1.60
MAX	21	4.0	718	1010	521	360	281	43	23	185	12	4.5
MIN	.66	2.1	2.2	50	50	33	26	6.5	1.8	3.4	1.8	1.1
CFSM	.05	.05	1.37	2.36	2.55	1.37	1.13	.27	.10	.51	.10	.03
IN.	.06	.05	1.58	2.72	2.65	1.58	1.26	.31	.11	.59	.12	.03

CAL YR 1981 TOTAL 9223.65 MEAN 25.3 MAX 957 MIN .66 CFSM .46 IN 6.24
WTR YR 1982 TOTAL 16349.70 MEAN 44.8 MAX 1010 MIN .66 CFSM .82 IN 11.06

02197600 BRUSHY CREEK NEAR WRENS, GA.

LOCATION.—Lat 33°10'37", long 82°18'20", Jefferson County, Hydrologic Unit 03060201, at right bank on downstream side of bridge on State Highway 80, 5 mi (8.0 km) southeast of Wrens, and 5.5 mi (8.8 km) upstream from Little Brushy Creek.

DRAINAGE AREA.—28.0 mi^2 (72.5 km^2).

PERIOD OF RECORD.—May 1958 to current year.

GAGE.--Water-stage recorder. Datum of gage is 282.56 ft (86.124 m) National Geodetic Vertical Datum of 1929 (levels by Georgia Department of Transportation).

REMARKS.--Records good. Discharge during growing season affected by undetermined amount of irrigation withdrawal. Moderate diurnal fluctuation at low flow.

AVERAGE DISCHARGE.--24 years, 26.7 ft^3/s (0.756 m^3/s), 12.95 in/yr (329 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 8.03 ft (2.448 m) Mar. 3, 1971 (discharge not determined); minimum daily discharge, 4.0 ft^3/s (0.113 m^3/s) July 24, 25, 27-29, 1981.

EXTREMES FOR CURRENT YEAR.—Maximum discharge, 244 ft^3/s (6.91 m^3/s) Feb. 4, gage height, 5.02 ft (1.530 m), no peaks above base of 300 ft^3/s (8.50 m^3/s); minimum daily discharge, 5.3 ft^3/s (0.150 m^3/s) Oct. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.9	7.5	10	153	27	22	15	18	24	9.8	15	10
2	6.0	7.4	14	53	21	21	14	16	14	9.1	14	11
3	6.3	8.3	11	45	121	20	14	15	12	9.1	13	9.6
4	6.8	9.8	9.8	64	172	19	14	14	13	8.8	12	9.8
5	6.8	9.1	9.3	55	74	18	21	13	13	8.3	12	9.4
6	6.8	9.3	9.1	35	43	17	26	13	11	8.3	15	9.1
7	6.4	8.8	8.8	28	34	27	17	13	11	8.4	12	8.8
8	5.3	8.5	8.7	25	29	27	18	13	10	8.7	11	9.0
9	6.5	8.5	8.5	23	27	23	24	12	9.9	13	16	8.6
10	9.4	8.7	8.5	22	28	20	18	12	10	28	13	9.9
11	11	8.5	8.5	20	25	18	15	11	12	24	14	11
12	8.4	8.4	8.5	19	24	17	14	11	11	16	18	11
13	7.8	8.5	8.4	20	29	17	14	11	14	12	42	10
14	7.6	8.5	23	31	27	16	13	10	14	11	42	9.8
15	7.4	8.5	71	30	28	16	13	10	12	10	22	9.4
16	7.3	8.6	46	27	32	16	13	9.9	11	10	15	9.2
17	7.2	10	24	24	80	19	13	9.8	10	10	13	9.0
18	7.3	9.4	19	22	63	28	14	9.9	11	10	114	9.7
19	7.3	8.9	17	21	38	23	13	10	10	10	72	10
20	7.4	8.8	16	21	30	20	22	10	9.7	10	28	9.7
21	7.6	9.1	15	20	30	18	22	10	9.5	9.3	20	10
22	7.7	9.0	14	18	25	16	18	9.7	9.8	9.1	16	10
23	7.8	8.8	14	24	22	15	16	9.8	10	8.8	15	9.4
24	8.6	9.1	15	39	21	16	15	14	11	8.7	14	9.0
25	18	9.0	70	25	19	19	25	26	17	8.6	13	8.6
26	26	8.9	38	22	20	18	68	16	11	8.5	12	8.6
27	17	8.5	27	20	23	16	78	22	11	8.4	12	9.3
28	11	8.5	22	19	25	15	37	17	11	8.2	11	9.3
29	8.6	8.6	26	18	---	16	24	13	11	55	11	8.6
30	7.9	8.5	21	17	---	16	19	12	10	28	11	8.2
31	7.8	---	104	19	---	15	---	27	---	18	10	---
TOTAL	272.9	262.0	705.1	979	1137	584	647	418.1	353.9	405.1	658	285.0
MEAN	8.80	8.73	22.7	31.6	40.6	18.8	21.6	13.5	11.8	13.1	21.2	9.50
MAX	26	10	104	153	172	28	78	27	24	55	114	11
MIN	5.3	7.4	8.4	17	19	15	13	9.7	9.5	8.2	10	8.2
CFSM	.31	.31	.81	1.13	1.45	.67	.77	.48	.42	.47	.76	.34
IN.	.36	.35	.94	1.30	1.51	.78	.86	.56	.47	.54	.87	.38

CAL YR 1981 TOTAL 5028.9 MEAN 13.8 MAX 181 MIN 4.0 CFSM .49 IN 6.68
WTR YR 1982 TOTAL 6707.1 MEAN 18.4 MAX 172 MIN 5.3 CFSM .66 IN 8.91

02197830 BRIER CREEK NEAR WAYNESBORO, GA.

LOCATION.--Lat 33°07'05", long 81°57'50", Burke County, Hydrologic Unit 03060108, near left bank on downstream end of pier of bridge on State Highway 56, 3.8 mi (6.1 km) northeast of Waynesboro.
DRAINAGE AREA.--473 mi^2 (1,225 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1969 to current year.
GAGE.--Water-stage recorder. Datum of gage is 173.78 ft (52.968 m) National Geodetic Vertical Datum of 1929.
REMARKS.--Records good except those for period of no gage-height record, Dec. 21 to Jan. 26, which are fair.
AVERAGE DISCHARGE.--13 years, 482 ft^3/s (13.65 m^3/s), 13.84 in/yr (352 mm/yr).
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,800 ft^3/s (306 m^3/s) Mar. 15, 1971, gage height, 12.28 ft (3.743 m); minimum, 79 ft^3/s (2.24 m^3/s) Oct. 4, 5, 1981, gage height, 1.97 ft (0.600 m).
EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,900 ft^3/s (53.8 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 4	unknown	*3600	102	8.92	2.719	Feb. 7	0200	2260	64.0	7.88	2.402

Minimum discharge, 79 ft^3/s (2.24 m^3/s) Oct. 4, 5, gage height, 1.97 ft (0.600 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	83	303	230	2100	492	550	425	1050	407	234	229	143
2	82	252	289	2200	493	572	419	762	428	198	218	140
3	81	213	248	3000	571	622	418	585	446	168	191	138
4	79	192	268	3400	796	677	411	481	460	149	176	152
5	82	184	278	3100	987	628	421	417	457	136	182	146
6	90	180	262	2200	1410	571	487	377	413	132	212	138
7	88	175	259	1500	2100	604	480	345	367	131	172	130
8	82	174	250	1200	1430	603	499	320	298	122	174	128
9	82	173	227	1000	1020	580	556	297	278	129	173	126
10	92	173	209	950	863	620	595	277	235	194	179	130
11	104	173	203	920	768	724	560	264	211	187	177	149
12	112	171	197	980	704	752	523	254	197	290	183	149
13	129	171	190	950	721	633	555	239	269	401	220	149
14	139	171	226	870	707	554	518	219	301	455	300	155
15	136	170	360	750	678	515	437	204	241	441	400	172
16	129	169	470	700	662	487	392	192	236	294	480	163
17	123	172	547	660	802	461	372	182	247	225	520	153
18	120	172	732	620	829	486	391	188	217	207	482	143
19	117	177	958	600	781	517	375	202	189	251	348	142
20	117	185	1100	600	1300	601	388	273	171	382	445	148
21	118	185	1040	630	1440	1040	431	230	162	529	785	153
22	117	185	940	650	1040	1130	469	219	154	414	831	156
23	117	194	780	640	817	804	489	214	160	247	564	150
24	117	204	580	610	714	645	512	219	259	206	333	151
25	148	196	480	590	645	576	536	213	239	184	238	145
26	181	188	420	600	593	539	593	255	252	185	203	139
27	209	187	390	620	570	514	714	376	235	177	182	139
28	257	187	370	668	556	496	775	404	322	170	169	137
29	309	186	500	669	---	489	1010	347	300	233	158	136
30	326	188	800	556	---	473	1310	295	239	241	153	131
31	324	---	1300	493	---	440	---	333	---	218	148	---
TOTAL	4290	5650	15103	35026	24489	18903	16061	10233	8390	7530	9225	4331
MEAN	138	188	487	1130	875	610	535	330	280	243	298	144
MAX	326	303	1300	3400	2100	1130	1310	1050	460	529	831	172
MIN	79	169	190	493	492	440	372	182	154	122	148	126
CFSM	.29	.40	1.03	2.39	1.85	1.29	1.13	.70	.59	.51	.63	.30
IN.	.34	.44	1.19	2.75	1.93	1.49	1.26	.80	.66	.59	.73	.34

CAL YR 1981 TOTAL 108281 MEAN 297 MAX 2290 MIN 79 CFSM .63 IN 8.52
WTR YR 1982 TOTAL 159231 MEAN 436 MAX 3400 MIN 79 CFSM .92 IN 12.52

02197830 BRIER CREEK NEAR WAYNESBORO, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1958 to June 1958, December 1977 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
NOV					
04...	1625	189	--	2	1.0
JAN					
27...	1235	608	--	3	4.9
MAR					
10...	1045	601	--	6	9.7
APR					
21...	1130	430	17.5	8	9.3
JUL					
01...	1415	238	24.0	6	3.9
SEP					
02...	1320	140	24.0	15	5.7

02198000 BRIER CREEK AT MILLHAVEN, GA.

LOCATION.--Lat 32°56'00", long 81°39'05", Screven County, Hydrologic Unit 03060108, near right bank on downstream side of pier of highway bridge at Millhaven, 8.5 mi (13.7 km) upstream from Beaver Dam Creek.

DRAINAGE AREA.--646 mi^2 (1,670 km^2).

PERIOD OF RECORD.--October 1936 to current year. Monthly discharges only for some periods, published in WSP 1303.

REVISED RECORDS.--WSP 1383: Drainage area. WSP 1503: 1956.

GAGE.--Water-stage recorder. Datum of gage is 95.88 ft (29.224 m) National Geodetic Vertical Datum of 1929. Prior to June 7, 1950, nonrecording gage at site 200 ft (61 m) downstream at same datum. June 7, 1950, to Apr. 30, 1951, nonrecording gage at present site and datum.

REMARKS.--Records good. Records of chemical analyses for the 1970-79 water year are in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--46 years, 659 ft^3/s (18.66 m^3/s), 13.85 in/yr (352 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 25,400 ft^3/s (719 m^3/s) Aug. 16, 1940, gage height, 17.4 ft (5.304 m), from graph based on gage readings; minimum daily, 64 ft^3/s (1.81 m^3/s) Sept. 5-11, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1797, 25.1 ft (7.650 m) in September or October 1929, from information by Georgia Department of Transportation, discharge, 64,000 ft^3/s (1,810 m^3/s), by slope-conveyance study.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,000 ft^3/s (56.6 m^3/s) and maximum (*):

		Discharge		Gage height				Discharge		Gage height	
Date	Time	(ft^3/s)	(m^3/s)	(ft)	(m)	Date	Time	(ft^3/s)	(m^3/s)	(ft)	(m)
Jan. 6	0600	*3450	97.7	10.19	3.106	Feb. 9	1500	2130	60.3	8.28	2.524

Minimum discharge, 102 ft^3/s (2.89 m^3/s) Oct. 6, 7, gage height, 0.26 ft (0.079 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	110	312	257	2130	886	800	593	927	397	325	339	170
2	105	336	315	1960	808	754	568	1240	365	280	302	165
3	105	347	357	1830	779	717	551	1260	388	249	276	160
4	104	343	387	1970	864	701	528	1020	463	224	258	153
5	104	320	388	2540	892	713	532	807	493	194	229	146
6	104	286	350	3310	973	760	624	641	514	174	210	152
7	103	257	338	2510	1120	846	613	531	498	165	260	150
8	108	240	344	1810	1380	859	611	469	466	160	358	143
9	109	232	336	1530	2040	793	635	423	414	154	311	138
10	111	227	329	1410	1850	812	626	380	353	163	284	143
11	125	226	320	1280	1440	769	634	349	321	224	262	151
12	141	226	302	1140	1200	734	656	324	290	284	255	162
13	146	225	284	1040	1150	757	664	305	329	287	238	183
14	148	222	294	1030	1050	856	628	288	327	334	237	177
15	158	220	384	1070	973	862	596	267	321	410	256	170
16	166	221	469	1000	937	763	607	248	345	470	290	171
17	167	222	490	945	941	686	594	230	317	501	334	186
18	162	221	540	895	951	661	630	219	333	499	430	179
19	156	222	606	876	972	653	552	224	340	390	501	195
20	152	224	655	894	1030	635	533	240	295	298	553	184
21	148	227	767	920	1000	628	551	237	244	284	509	178
22	146	233	979	950	1080	635	514	258	216	334	418	186
23	146	239	1100	930	1570	756	498	265	225	413	488	190
24	150	245	943	920	1380	1170	503	247	228	498	718	182
25	187	256	785	900	1110	1120	556	246	242	404	772	170
26	246	268	695	880	962	902	835	251	346	282	564	170
27	250	269	623	863	899	755	976	301	308	232	345	167
28	251	259	604	852	865	668	919	545	304	215	249	162
29	255	251	758	832	---	619	880	550	283	208	213	158
30	262	249	866	820	---	600	893	454	297	226	192	154
31	283	---	1320	863	---	596	---	439	---	293	178	---
TOTAL	4908	7625	17185	40900	31102	23580	19100	14185	10262	9174	10829	4995
MEAN	158	254	554	1319	1111	761	637	458	342	296	349	167
MAX	283	347	1320	3310	2040	1170	976	1260	514	501	772	195
MIN	103	220	257	820	779	596	498	219	216	154	178	138
CFSM	.25	.39	.86	2.04	1.72	1.18	.99	.71	.53	.46	.54	.26
IN.	.28	.44	.99	2.36	1.79	1.36	1.10	.82	.59	.53	.62	.29

CAL YR 1981 TOTAL 139838 MEAN 383 MAX 1870 MIN 103 CFSM .59 IN 8.05
WTR YR 1982 TOTAL 193845 MEAN 531 MAX 3310 MIN 103 CFSM .82 IN 11.16

02198500 SAVANNAH RIVER NEAR CLYO, GA.
(National stream-quality accounting network station)
(Radiochemical program station)
(National pesticide water-monitoring program)

LOCATION.--Lat 32°31'30", long 81°15'45", Effingham County, Ga.-Jasper County, S.C., Hydrologic Unit 03060109, on downstream side of center pier of drawspan of bridge on Seaboard Coast Line Railroad, 3.0 m (4.8 km) north of Clyo, and at mile 60.9 (98.0 km).
DRAINAGE AREA.--9,850 mi^2 (25,510 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1929 to September 1933, October 1937 to current year. Monthly discharge only for some periods, published in WSP 1303. Gage-height records collected at same site 1921-43 by National Weather Service (unpublished prior to 1933).
REVISED RECORDS.--WSP 1112: 1940.
GAGE.--Water-stage recorder. Datum of gage is 13.41 ft (4.087 m), National Geodetic Vertical Datum of 1929. Prior to Jan. 31, 1933, nonrecording gage at same site and at datum 4.00 ft (1.22 m) higher. Jan. 31, 1933 to June 12, 1945, nonrecording gage at same site and datum.
REMARKS.--Records good. Flow regulated by Lake Burton, Mathis Reservoir, Hartwell Lake, and Clarks Hill Reservoir. (See "Lakes and Reservoirs in Savannah River Basin," stations 02178500, 02179500, 02187250, and 02194500).
AVERAGE DISCHARGE.--49 years, 12,000 ft^3/s (339.8 m^3/s), 16.58 in/yr (421 mm/yr), unadjusted.
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 270,000 ft^3/s (7,650 m^3/s) Oct. 6, 1929, gage height, 29.7 ft (9.05 m), present datum (from information by U.S. Army Corps of Engineers), from rating curve extended above 120,000 ft^3/s (3,400 m^3/s); minimum daily discharge, 1,950 ft^3/s (55.2 m^3/s) Sept. 27, 1931.
EXTREMES FOR CURRENT YEAR.--Maximum discharge, 19,500 ft^3/s (552 m^3/s) Jan. 11, gage height, 12.89 ft (3.929 m); minimum daily discharge, 4,420 ft^3/s (125 m^3/s) Dec. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5970	5420	4970	9370	9000	19100	7260	14400	7590	7310	7820	6400
2	5750	5360	5010	10500	7690	18800	7640	15200	7460	7030	7390	6250
3	5540	5350	4800	12200	7330	18500	7770	15900	7320	6640	6900	6210
4	5410	5430	4830	13500	7450	18000	7710	16200	7280	6400	6670	6200
5	5460	5440	5320	14400	8660	17300	7490	14700	7430	6430	6560	6240
6	5540	5350	5290	15200	10900	16800	7190	11400	8080	6420	6420	6330
7	5600	5530	5280	16000	12300	16700	7040	9370	8310	6330	6410	6120
8	5540	6470	5090	16800	13300	16600	7210	8840	7770	6340	6640	5810
9	5470	6570	4760	18000	13700	16200	7800	8730	7220	6420	6970	5760
10	5550	5760	4460	19000	12400	14300	8690	8260	6920	6570	7180	5860
11	5610	5490	4420	19400	11100	12000	9470	7600	6830	6490	7370	6220
12	5660	5300	4610	18600	11300	10900	9490	7000	6810	6520	7940	6880
13	5760	5140	5360	15800	11600	10100	8010	6660	6810	6680	8270	7350
14	5940	5040	6400	14200	11700	9480	7000	6640	6900	6880	8230	7110
15	5850	5090	6400	13800	11900	8970	6700	6840	7060	7130	7760	6810
16	5580	5190	6430	13300	11200	8170	6650	7180	6980	7520	7270	7350
17	5510	5340	6890	12400	10500	7550	7220	7430	6990	8030	6840	8260
18	5510	5270	7220	11700	10500	7490	8480	7290	7210	8340	6640	8960
19	5510	4970	8070	10400	11300	8100	8710	6740	7390	8430	6730	9250
20	5640	4790	8210	8820	12700	9210	7850	6600	7440	8220	7040	8810
21	5750	4730	7240	8620	13800	9640	7330	6740	7440	7940	7370	8380
22	5640	4710	6630	9170	14600	9350	7370	6720	7330	7730	7480	7880
23	5460	5000	6230	8960	15400	8390	8700	6560	7170	7590	7300	7460
24	5340	5420	6060	8590	16200	7630	10200	6520	7330	7580	7010	7670
25	5400	5630	6040	8470	17000	7640	11000	6760	7410	7670	6670	8570
26	5440	5190	6230	8270	18000	8120	11000	7240	7190	7660	6500	8650
27	5580	5000	7120	8210	18800	8570	9930	7980	6990	7430	6800	7970
28	6010	5230	9610	9070	19100	8630	10200	8380	6990	7310	8040	7240
29	6130	5190	11100	10000	---	8320	12100	8410	7200	7240	8190	6820
30	5740	5070	11100	10500	---	7640	13400	8290	7430	7700	7210	7160
31	5540	---	9710	10400	---	7190	---	7930	---	8230	6620	---
TOTAL	174530	159460	200890	383650	349430	355390	256610	274510	218280	224210	222240	215980
MEAN	5630	5315	6480	12380	12480	11460	8554	8855	7276	7233	7169	7199
MAX	6130	6570	11100	19400	19100	19100	13400	16200	8310	8430	8270	9250
MIN	5340	4710	4420	8210	7330	7190	6650	6520	6810	6330	6410	5760

CAL YR 1981 TOTAL 2539460 MEAN 6957 MAX 13400 MIN 4420 MEAN† 6163 CFSM† 0.63 IN† 8.49
WTR YR 1982 TOTAL 3035180 MEAN 8316 MAX 19400 MIN 4420 MEAN† 9675 CFSM† 0.98 IN† 13.33

† ADJUSTED FOR CHANGE IN CONTENTS IN LAKE BURTON, MATHIS RESERVOIR, HARTWELL LAKE, AND CLARKS HILL RESERVOIR.

02198500 SAVANNAH RIVER NEAR CLYO, GA.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.—May 1938 to April 1939, October 1964 to current year.
PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: January 1974 to July 1977.
WATER TEMPERATURES: May 1938 to April 1939, January 1974 to July 1977.
EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 110 micromhos June 14, 1977; minimum daily, 42 micromhos July 5, 1974.
WATER TEMPERATURES: Maximum daily, 27.0°C Aug. 23, 1975, July 9, 13, 1977; minimum daily recorded, 4.0°C Jan. 22-24, 26, 30, Feb. 1.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	TEMPER-ATURE, AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT										
21...	1100	5940	--	98	7.3	7.6	15.5	20.0	8.4	84
NOV										
04...	1405	5460	104	95	6.9	7.3	20.0	--	7.6	--
23...	1550	5080	--	109	7.1	7.3	9.5	17.0	10.0	88
DEC										
09...	1150	4770	--	106	6.9	7.3	7.0	17.0	10.6	88
JAN										
06...	1330	15300	57	52	6.3	6.8	10.5	--	9.2	--
20...	1140	8760	--	77	--	7.1	6.0	18.0	10.7	86
FEB										
17...	1200	10500	--	78	6.6	7.0	12.5	23.5	8.6	82
MAR										
03...	1330	18500	61	56	6.5	6.9	10.0	--	10.2	--
17...	1215	7520	--	92	--	7.0	17.0	27.5	--	--
APR										
21...	1130	7400	88	89	6.6	7.0	18.5	29.5	7.0	75
MAY										
13...	1340	6640	75	86	6.9	7.5	23.0	--	7.5	--
19...	1040	6740	86	83	7.0	7.2	22.0	24.0	7.2	83
JUN										
22...	0815	7360	93	90	7.0	7.2	25.0	24.5	6.8	83
JUL										
13...	1430	6470	83	83	7.1	7.1	26.5	--	7.2	--
27...	0900	7460	--	75	7.3	7.1	26.0	27.0	6.2	77
AUG										
16...	1500	7200	--	93	7.2	7.1	25.5	30.0	6.1	74
SEP										
02...	1650	6190	89	93	7.1	7.6	26.5	--	6.9	--
13...	0850	7280	--	78	7.2	7.2	23.0	25.0	6.3	73

02198500 SAVANNAH RIVER NEAR CLYO, GA.—Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	TUR-BID-ITY (FTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
OCT										
21...	20	7	--	.4	230	--	--	--	--	--
NOV										
04...	--	--	5.7	--	--	12	--	19	.00	5.5
23...	30	8	--	.6	<30	--	--	--	--	--
DEC										
09...	45	8	--	.5	<30	--	--	--	--	--
JAN										
06...	--	--	38	--	--	300	K835	14	3.0	3.9
20...	50	19	--	.7	210	--	--	--	--	--
FEB										
17...	70	16	--	.5	<30	--	--	--	--	--
MAR										
03...	--	--	22	--	--	98	60	16	.00	4.3
17...	70	21	--	.7	<30	--	--	--	--	--
APR										
21...	70	17	--	1.0	50	--	--	--	--	--
MAY										
13...	--	--	22	--	--	K23	72	20	.00	5.8
19...	40	21	--	.5	50	--	--	--	--	--
JUN										
22...	60	16	--	.2	40	--	--	--	--	--
JUL										
13...	--	--	17	--	--	K34	174	19	.00	5.4
27...	60	15	--	1.1	50	--	--	--	--	--
AUG										
16...	50	15	--	.3	510	--	--	--	--	--
SEP										
02...	--	--	13	--	--	K20	K1300	18	.00	5.2
13...	40	10	--	.7	--	--	--	--	--	--

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)
OCT										
21...	--	--	--	--	--	26	--	--	--	--
NOV										
04...	1.3	13	58	1.4	1.4	22	7.7	9.3	<.1	11
23...	--	--	--	--	--	27	--	--	--	--
DEC										
09...	--	--	--	--	--	27	--	--	--	--
JAN										
06...	1.1	5.0	40	.6	1.6	11	6.9	4.5	<.1	9.0
20...	--	--	--	--	--	16	--	--	--	--
FEB										
17...	--	--	--	--	--	19	--	--	--	--
MAR										
03...	1.2	7.3	47	.9	1.5	17	6.4	4.8	<.1	9.5
17...	--	--	--	--	--	23	--	--	--	--
APR										
21...	--	--	--	--	--	23	--	--	--	--
MAY										
13...	1.4	9.6	48	1.0	1.5	24	7.0	8.4	<.1	9.5
19...	--	--	--	--	--	22	--	--	--	--
JUN										
22...	--	--	--	--	--	23	--	--	--	--
JUL										
13...	1.3	9.4	50	1.0	1.4	22	7.0	7.3	<.1	11
27...	--	--	--	--	--	20	--	--	--	--
AUG										
16...	--	--	--	--	--	23	--	--	--	--
SEP										
02...	1.3	9.7	51	1.0	1.6	24	6.0	8.2	<.1	9.9
13...	--	--	--	--	--	21	--	--	--	--

02198500 SAVANNAH RIVER NEAR CLYO, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	TRITIUM IN WATER MOLECULES (TU)	TRITIUM WATER MOLECULES COUNT ERROR (TU)
OCT									
21...	--	--	--	12	--	--	--	1030	17.0
NOV									
04...	72	62	1060	--	10	147	66	--	--
23...	--	--	--	17	--	--	--	1670	26.0
DEC									
09...	--	--	--	9	--	--	--	1620	25.0
JAN									
06...	56	39	2310	--	26	1070	98	--	--
20...	--	--	--	15	--	--	--	1320	22.0
FEB									
17...	--	--	--	11	--	--	--	1450	22.0
MAR									
03...	54	46	2700	--	11	549	92	--	--
17...	--	--	--	21	--	--	--	1540	24.0
APR									
21...	--	--	--	15	--	--	--	1300	18.0
MAY									
13...	66	58	1180	--	12	215	98	--	--
19...	--	--	--	21	--	--	--	1090	16.0
JUN									
22...	--	--	--	21	--	--	--	1020	15.0
JUL									
13...	72	56	1260	--	19	332	86	--	--
27...	--	--	--	12	--	--	--	1210	21.0
AUG									
16...	--	--	--	16	--	--	--	1730	21.0
SEP									
02...	71	56	1190	--	17	284	76	--	--
13...	--	--	--	17	--	--	--	1060	16.0

DATE	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT									
21...	.42	--	.100	--	--	.110	--	--	3.8
NOV									
04...	--	.55	--	.030	.38	.100	.080	.070	--
23...	.40	--	.040	--	--	.100	--	--	4.3
DEC									
09...	.54	--	.120	--	--	.120	--	--	4.5
JAN									
06...	--	.29	--	.060	.66	.090	.040	.020	--
20...	.34	--	--	--	--	.100	--	--	5.0
FEB									
17...	.36	--	.110	--	--	.070	--	--	8.0
MAR									
03...	--	.26	--	.060	.43	.070	.020	.020	--
17...	.34	--	.080	--	--	.090	--	--	7.0
APR									
21...	.41	--	.050	--	--	.100	--	--	5.0
MAY									
13...	--	.46	--	.040	.45	.120	.060	.040	--
19...	.30	--	.040	--	--	.090	--	--	4.0
JUN									
22...	.37	--	.070	--	--	.120	--	--	4.5
JUL									
13...	--	.50	--	.030	.70	.100	.060	.060	--
27...	.33	--	.020	--	--	.140	--	--	--
AUG									
16...	.60	--	.030	--	--	.100	--	--	2.5
SEP									
02...	--	.35	--	.020	.60	.130	.080	.040	--
13...	.30	--	.060	--	--	.090	--	--	1.5

02198500 SAVANNAH RIVER NEAR CLYO, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA)	BARIUM, DIS-SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO)	COBALT, DIS-SOLVED (UG/L AS CO)
JAN										
06...	1	0	<100	89	1	<1	<10	<10	2	<1
MAR										
03...	1	1	<100	140	<1	<1	20	<10	<1	<1
MAY										
13...	2	1	<100	72	1	<1	10	<10	2	<1
JUL										
13...	<1	<1	<100	49	<1	<1	10	10	5	3

DATE	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)
JAN									
06...	7	7	1300	420	<1	<1	90	32	.1
MAR									
03...	34	33	790	220	<1	5	30	14	.1
MAY									
13...	5	1	1800	320	3	3	90	20	<.1
JUL									
13...	7	3	950	270	4	2	60	11	<.1

DATE	MERCURY DIS-SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)	SILVER, DIS-SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
JAN									
06...	<.1	<1	<1	<1	<1	<1	<1	40	42
MAR									
03...	<.1	4	4	<1	<1	<1	<1	10	120
MAY									
13...	<.1	3	1	<1	<1	<1	<1	20	32
JUL									
13...	<.1	1	1	<1	<1	<1	<1	70	20

DATE	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L)	URANIUM DIS-SOLVED, EXTRAC-TION (UG/L)
MAY									
13...	1.7	2.5	<1.3	1.2	2.3	1.1	2.3	.12	.20
SEP									
02...	--	<.6	<1.6	.7	2.8	.7	2.6	.06	.08

02198500 SAVANNAH RIVER NEAR CLYO, GA.—Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	PCB, TOTAL (UG/L)	NAPHTHALENES, POLYCHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLORDANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)	DIAZINON, TOTAL (UG/L)	DIELDRIN TOTAL (UG/L)	ENDOSULFAN, TOTAL (UG/L)
MAY										
13...	<.10	<.10	<.01	<.10	<.01	<.01	<.01	.01	<.01	<.01
JUL										
13...	<.10	<.10	<.01	<.10	<.01	<.01	<.01	<.01	<.01	<.01
SEP										
02...	<.10	<.10	<.01	<.10	<.01	<.01	<.01	<.01	<.01	<.01

DATE	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTACHLOR, TOTAL (UG/L)	HEPTACHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALATHION, TOTAL (UG/L)	METHOXYCHLOR, TOTAL (UG/L)	METHYL PARATHION, TOTAL (UG/L)	METHYL TRITHION, TOTAL (UG/L)
MAY									
13...	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01
JUL									
13...	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01
SEP									
02...	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01

DATE	MIREX, TOTAL (UG/L)	PARATHION, TOTAL (UG/L)	PERTHANE TOTAL (UG/L)	TOXAPHENE, TOTAL (UG/L)	TOTAL TRITHION (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
MAY									
13...	<.01	<.01	<.10	<1	<.01	<.01	<.01	<.01	<.01
JUL									
13...	<.01	<.01	<.10	<1	<.01	<.01	<.01	<.01	<.01
SEP									
02...	<.01	<.01	<.10	<1	<.01	<.01	<.01	<.01	<.01

DATE	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG)	PCN, TOTAL IN BOTTOM MATERIAL (UG/KG)	ALDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	CHLORDANE, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDD, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDE, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDT, TOTAL IN BOTTOM MATERIAL (UG/KG)	DIELDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	ENDOSULFAN, TOTAL IN BOTTOM MATERIAL (UG/KG)
MAY									
13...	<1	<1.0	<.1	<1.0	<.1	<.1	<.1	<.1	<.1

DATE	ENDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR, TOTAL IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL IN BOTTOM MATERIAL (UG/KG)	METHOXYCHLOR, TOT. IN BOTTOM MATL. (UG/KG)	MIREX, TOTAL IN BOTTOM MATERIAL (UG/KG)	PERTHANE IN BOTTOM MATERIL (UG/KG)	TOXAPHENE, TOTAL IN BOTTOM MATERIAL (UG/KG)
MAY								
13...	<.1	<.1	<.1	<.1	<.1	<.1	<1.00	<10

LAKES AND RESERVOIRS IN SAVANNAH RIVER BASIN

02178500 LAKE BURTON.--Lat 34°47'37", long 83°32'26", Rabun County, Hydrologic Unit 03060102, on Tallulah River, 5.5 mi (8.8 km) downstream from bridge on U.S. Highway 76, 10 mi (16 km) southwest of Clayton, Ga. DRAINAGE AREA, 115 mi^2 (298 km^2). PERIOD OF RECORD, October 1929 to current year. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by Georgia Power Co.).

Lake is formed by concrete gravity dam. Spillway, crest elevation, 1,860.0 ft (566.93 m) is equipped with eight gates 22 ft (6.71 m) wide by 6.6 ft (2.01 m) high. Dam completed in 1919. Total capacity at elevation 1,866.6 ft (568.94 m), top of gates, is 108,000 acre-ft (133 hm^3), of which 106,000 acre-ft (131 hm^3) is usable storage. Lake is used for power development. Capacity curve and monthend elevations furnished by Georgia Power Co.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

Date	Elevation (feet)†	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30................	1861.6	94200	-	-
Oct. 31................	1861.7	94400	+200	+3
Nov. 30................	1857.1	82800	-11600	-195
Dec. 31................	1856.7	81900	-900	-15
CAL YR 1981	-	-	+22100	+31
Jan. 31................	1859.5	88700	+6800	+111
Feb. 28................	1858.1	85200	-3500	-63
Mar. 31................	1859.6	89000	+3800	+62
Apr. 30................	1864.4	102000	+13000	+218
May 31................	1865.5	105000	+3000	+49
June 30................	1864.9	103000	-2000	-34
July 31................	1865.2	104000	+1000	+16
Aug. 31................	1865.1	104000	0	0
Sept. 30................	1865.0	103000	-1000	-17
WTR YR 1982	-	-	+8800	+12

† Elevation at 0700 on day following that shown in first column.

02179500 MATHIS RESERVOIR.--Lat 34°47'03", long 83°24'57", Rabun County, Hydrologic Unit 03060102, on Tallulah River, 1 mi (1.6 km) upstream from bridge on U.S. Highway 23, 1.8 mi (2.9 km) south of Lakemont, Ga. DRAINAGE AREA, 151 mi^2 (391 km^2) PERIOD OF RECORD, October 1929 to current year. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by Georgia Power Co.).

Reservoir is formed by concrete slab and buttress dam. Spillway, crest elevation, 1,682.75 ft (512.90 m) is equipped with 16 gates 15.8 ft (4.82 m) wide by 6.85 ft (2.09 m) high. Dam completed in 1915. Total capacity at elevation 1,689.6 ft (514.99 m), top of gates, is 31,200 acre-ft (38.5 hm^3), of which 23,000 acre-ft (28.4 hm^3) is usable storage. Reservoir is used for power development. Capacity curve and monthend elevations furnished by Georgia Power Co.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

Date	Elevation (feet)†	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30................	1688.1	29900	-	-
Oct. 31................	1687.8	29800	-100	-2
Nov. 30................	1683.9	26900	-2900	-49
Dec. 31................	1684.0	27000	+100	+2
CAL YR 1981	-	-	-2800	-4
Jan. 31................	1686.6	28800	+1800	+29
Feb. 28................	1687.2	29300	+500	+9
Mar. 31................	1687.2	29300	0	0
Apr. 30................	1687.7	29600	+300	+5
May 31................	1688.0	29900	+300	+5
June 30................	1687.2	29300	-600	-10
July 31................	1687.6	29600	+300	+5
Aug. 31................	1687.9	29800	+200	+3
Sept. 30................	1687.6	29600	-200	-3
WTR YR 1982	-	-	-300	0

† Elevation at 0700 on day following that shown in first column.

LAKES AND RESERVOIRS IN SAVANNAH RIVER BASIN--Continued

02187250 **HARTWELL LAKE.**--Lat 34°21'25", long 82°49'20", Hart County, Ga.-Anderson County, S.C., Hydrologic Unit 03060103, in right spillway elevator tower of dam on Savannah River, 0.9 mi (1.4 km) upstream from Big Generostee Creek, 6.4 mi (10.3 km) east of Hartwell, Ga., and at mile 305.0 (490.7 km). DRAINAGE AREA, 2,088 mi^2 (5,408 km^2). PERIOD OF RECORD, October 1959 to current year. GAGE, water-stage recorder. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

Lake is formed by concrete dam with earth embankments at each end; storage began in February 1961, dam completed in 1961. Usable capacity, 1,708,600 acre-ft (2,110 hm^3) between elevations 625.0 ft (190.50 m), normal limit of drawdown, and 665.0 ft (202.69 m), top of gates. Dead storage below 625.0 ft (190.50 m), 1,134,100 acre-ft (1,400 hm^3). Elevation of spillway crest, 630.0 ft (192.02 m). Water is used for flood control, generation of power, and navigation. Capacity table furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 2,871,000 acre-ft (3,540 hm^3) Apr. 8, 1964, elevation, 665.47 ft (202.835 m); minimum, after first filling, 1,182,000 acre-ft (1,460 hm^3) Oct. 16, 1961, elevation, 626.70 ft (191.018 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 2,673,600 acre-ft (3,300 hm^3) June 14, elevation, 662.17 ft (201.829 m) minimum, 1,712,200 acre-ft (2,110 hm^3) Dec. 24, elevation, 642.39 ft (195.800 m).

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

Date	Elevation (feet)	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30................	647.86	1942000	-	-
Oct. 31................	645.89	1856200	-85800	-1395
Nov. 30................	643.64	1762500	-93700	-1575
Dec. 31................	643.24	1746200	-16300	-265
CAL YR 1981	-	-	-462800	-639
Jan. 31................	649.68	2024400	+278200	+4524
Feb. 28................	655.32	2298900	+274500	+4942
Mar. 31................	658.41	2462000	+163100	+2652
Apr. 30................	659.99	2549100	+87100	+1464
May 31................	661.80	2652100	+103000	+1675
June 30................	661.30	2623400	-28700	-482
July 31................	659.50	2521900	-101500	-1651
Aug. 31................	658.23	2452200	-69700	-1134
Sept. 30................	655.71	2318900	-133300	-2240
WTR YR 1982	-	-	+376900	+521

02194500 CLARKS HILL RESERVOIR.--Lat 33°39'40", long 82°12'00", Columbia County, Ga.-McCormick County, S.C., Hydrologic Unit 03060103, in left spillway elevator tower of dam on Savannah River, 1.6 mi (2.6 km) west of Clarks Hill, 3.7 mi (6.0 km) upstream from Kiokee Creek, and at mile 237.7 (382.5 km). DRAINAGE AREA, 6,150 mi^2 (15,900 km^2), approximately. PERIOD OF RECORD, October 1951 to current year. REVISED RECORDS, WSP 1703: 1953. GAGE, water-stage recorder. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Prior to Oct. 1, 1952, nonrecording gage at same site and datum.

Lake is formed by concrete dam with earth dam at each end; storage began in December 1951, dam completed in 1952. Usable capacity, 1,730,000 acre-ft (2,130 hm^3) between elevations 305.0 ft (92.96 m), normal limit of drawdown, and 335.0 ft (102.11 m), top of spillway gates. Dead storage below 305.0 ft (92.96 m), 1,170,000 acre-ft (1,440 hm^3). Elevation of spillway crest, 300.0 ft (91.44 m). Water is used for flood control, generation of power, and navigation. Capacity table furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 3,037,600 acre-ft (3,750 hm^3) Apr. 9, 1964, elevation, 336.72 ft (102.632 m); minimum, 897,900 acre-ft (1,110 hm^3) Feb. 1, 1956, elevation, 296.48 ft (90.367 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 2,723,700 acre-ft (3,360 hm^3) Feb 19, elevation, 332.74 ft (101.419 m); minimum, 1,727,900 acre-ft (2,130 hm^3) Nov. 23, elevation, 317.46 ft (96.762 m).

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

Date	Elevation (feet)	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30................	319.75	1847000	-	-
Oct. 31................	318.35	1774200	-72800	-1184
Nov. 30................	318.00	1756000	-18200	-306
Dec. 31................	322.10	1986000	+230000	+3740
CAL YR 1981	-	-	-132000	-182
Jan. 31................	328.14	2379800	+393800	+6404
Feb. 28................	331.67	2640200	+260400	+4689
Mar. 31................	331.00	2588000	-52200	-849
Apr. 30................	331.39	2618400	+30400	+511
May 31................	330.25	2529500	-88900	-1446
June 30................	330.11	2518600	-10900	-183
July 31................	330.83	2574700	+56100	+912
Aug. 31................	330.51	2549800	-24900	-405
Sept. 30................	329.09	2446300	-103500	-1739
WTR YR 1982	-	-	+598000	+826

02201000 WILLIAMSON SWAMP CREEK AT DAVISBORO, GA.

LOCATION.--Lat 32°58'32", long 82°36'36", Washington County, Hydrologic Unit 03060201, at bridge on State Highway 231 at Davisboro, 1.2 mi (1.9 km) downstream from Central of Georgia Railroad bridge, and 1.9 mi (3.1 km) downstream from Sun Hill Creek.

DRAINAGE AREA.--109 mi^2 (282 km^2).

PERIOD OF RECORD.--Water years 1979-80 (annual maximum), May 1980 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 270 ft (82 m), from topographic map. August 16, 1978, to May 8, 1980, crest-stage gage at same site and datum.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,430 ft^3/s (97.1 m^3/s) Mar. 13, 1980, gage height, 11.13 ft (3.392 m); minimum discharge, 11 ft^3/s (0.312 m^3/s) July 23-25, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 650 ft^3/s (18.4 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 1	2100	1080	30.6	8.42	2.566	Feb. 4	1100	*1540	43.6	9.02	2.749

Minimum discharge, 12 ft^3/s (0.340 m^3/s) Oct. 3, 4, gage height, 2.62 ft (0.799 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	35	54	693	170	127	75	103	40	46	64	28
2	13	32	75	632	169	114	73	83	38	38	65	28
3	12	31	66	294	282	107	79	73	38	43	56	31
4	12	32	54	307	1260	103	91	66	101	45	46	30
5	13	33	48	461	588	101	102	60	107	44	43	28
6	14	37	46	362	326	102	231	56	66	41	69	26
7	15	31	45	225	241	194	157	53	48	38	75	25
8	15	29	48	188	193	267	105	54	39	43	53	25
9	15	28	45	164	177	175	132	54	35	61	64	25
10	24	31	41	140	217	136	105	49	33	178	61	34
11	44	34	39	119	196	120	86	45	29	222	57	58
12	35	33	38	104	162	112	76	42	29	129	99	69
13	28	32	38	110	178	107	72	40	52	75	116	54
14	25	31	66	163	170	102	69	38	66	58	87	45
15	22	31	237	241	145	99	66	36	47	56	61	38
16	21	33	328	216	147	96	64	36	37	53	54	33
17	21	34	176	184	264	103	64	35	32	220	64	30
18	20	34	103	152	357	138	80	139	33	148	213	28
19	21	33	93	133	237	118	75	140	33	75	138	30
20	22	37	75	134	183	107	87	68	28	62	80	44
21	22	38	64	130	154	99	109	85	26	50	66	42
22	23	36	61	120	134	92	78	58	38	46	57	37
23	23	35	60	112	119	88	60	54	145	41	49	32
24	23	40	59	211	114	85	52	90	73	44	44	28
25	34	46	147	223	109	89	71	226	65	48	39	27
26	115	43	252	150	106	87	274	81	58	41	36	27
27	196	41	163	121	128	76	458	81	46	44	33	27
28	110	41	145	108	151	72	434	72	42	72	32	26
29	59	38	249	103	---	73	236	56	69	76	31	25
30	43	38	343	99	---	77	136	49	61	82	30	25
31	37	---	246	102	---	76	---	44	---	62	29	---
TOTAL	1091	1047	3504	6501	6677	3442	3797	2166	1554	2281	2011	1005
MEAN	35.2	34.9	113	210	238	111	127	69.9	51.8	73.6	64.9	33.5
MAX	196	46	343	693	1260	267	458	226	145	222	213	69
MIN	12	28	38	99	106	72	52	35	26	38	29	25
CFSM	.32	.32	1.04	1.93	2.18	1.02	1.17	.64	.48	.68	.60	.31
IN.	.37	.36	1.20	2.22	2.28	1.17	1.30	.74	.53	.78	.69	.34

CAL YR 1981 TOTAL 20655 MEAN 56.6 MAX 598 MIN 12 CFSM .52 IN 7.05
WTR YR 1982 TOTAL 35076 MEAN 96.1 MAX 1260 MIN 12 CFSM .88 IN 11.97

02202190 OGEECHEE RIVER NEAR OLIVER, GA.

LOCATION.--Lat 32°29'45", long 81°33'11", Screven-Bulloch County line, Hydrologic Unit 03060202, at bridge on State Highway 24, 0.3 mi (0.5 km) upstream from Ogeechee Creek, and 2.0 mi (3.2 km) southwest of Oliver.
DRAINAGE AREA.--2,230 mi^2 (5,780 km^2), approximately.
PERIOD OF RECORD.--August 1974 to current year.
REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, Dissolved Oxygen, and Specific Conductance by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	TEMPER-ATURE, AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT										
21...	1140	181	--	155	7.7	7.7	14.0	24.5	9.6	93
NOV										
23...	1625	280	--	106	7.2	7.6	7.0	17.0	11.8	98
DEC										
09...	1235	422	--	99	--	7.5	5.5	17.0	12.0	96
JAN										
20...	1235	4430	--	52	--	6.6	6.5	18.0	10.8	88
FEB										
17...	1245	5680	--	47	6.2	6.6	13.5	25.0	8.0	78
MAR										
17...	1300	2540	--	73	--	6.8	18.5	28.5	6.3	68
APR										
21...	1225	1970	75	75	--	6.9	18.0	29.5	5.2	55
MAY										
19...	1140	696	88	86	7.0	7.2	22.5	23.0	6.1	71
JUN										
22...	1015	1380	78	78	6.8	7.0	25.0	28.0	5.6	66
JUL										
27...	1025	1310	--	79	6.9	6.9	26.0	31.0	4.8	59
AUG										
16...	1345	700	82	85	7.2	7.2	26.0	28.5	5.2	64
SEP										
13...	1005	267	--	119	7.3	7.4	24.0	28.0	5.9	70

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT												
21...	20	3	--	.8	90	52	2	.10	.040	--	.080	3.0
NOV												
23...	40	3	--	.2	40	36	1	.12	.020	--	.110	6.4
DEC												
09...	50	5	--	.3	40	33	5	.08	<.020	--	.060	9.0
JAN												
20...	80	15	--	.2	110	7.0	2	.10	<.020	--	.020	12
FEB												
17...	100	8	--	.6	140	10	<1	.02	<.020	--	.040	13
MAR												
17...	100	8	--	.6	<30	24	2	.02	.030	--	.040	15
APR												
21...	100	6	--	.6	50	23	7	.19	.040	--	.080	10
MAY												
19...	80	7	--	.3	40	33	2	.24	.040	--	.080	9.0
JUN												
22...	80	6	--	.4	40	20	3	.17	.060	--	.080	13
JUL												
27...	120	6	30	.7	<30	26	<1	.09	.020	.60	.080	--
AUG												
16...	80	7	19	.6	110	29	5	.18	.030	.40	.060	6.0
SEP												
13...	50	4	16	.6	--	39	5	.26	.040	.30	.060	4.0

02202500 OGEECHEE RIVER NEAR EDEN, GA.

(National stream-quality accounting network station)

LOCATION.--Lat 32°11'29", long 81°24'58", Effingham-Bryan County line, Hydrologic Unit 03060202, on right bank 600 ft (183 m) downstream from bridge on U.S. Highways 25, 80, and 280, 2 mi (3.2 km) west of Eden, 2 mi (3.2 km) upstream from Seaboard Coast Line Railroad bridge, and 3 mi (4.8 km) upstream from Black Creek.

DRAINAGE AREA.--2,650 mi^2 (6,860 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1937 to current year.

GAGE.--Water-stage recorder. Datum of gage is 19.64 ft (5.986 m) National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Prior to Oct. 1, 1939, nonrecording gage at site 600 ft (183 m) upstream at same datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--45 years, 2,345 ft^3/s (66.41 m^3/s), 12.02 in/yr (305 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,800 ft^3/s (816 m^3/s) Mar. 19, 1980, gage height, 14.77 ft (4.502 m); minimum observed, 131 ft^3/s (3.71 m^3/s) Sept. 12-14, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1840, 20 ft (6.10 m) in October 1929, from data furnished by Central of Georgia Railway Co.

Flood of January 1925, reached a stage of 19.5 ft (5.94 m), from information as explained above.

Flood of April 1936, reached a stage of 15.2 ft (4.63 m), from information as explained above, discharge, 30,000 ft^3/s (850 m^3/s).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 4,800 ft^3/s (136 m^3/s) and minimum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 14	0900	*8760	248	10.42	3.176	Feb. 17	1000	7980	226	10.16	3.097

Minimum discharge, 171 ft^3/s (4.84 m^3/s) Oct. 7-10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	183	250	337	1310	2890	3470	2150	2800	1290	1130	1210	706
2	181	277	357	1440	2840	3420	2160	3160	1680	1070	1050	540
3	179	308	378	1570	2830	3450	2180	3430	1970	1010	927	455
4	177	338	400	1680	2850	3540	2130	3460	2150	965	880	416
5	175	375	395	1760	2840	3610	2060	3310	2430	899	838	393
6	173	402	392	1840	2830	3600	2040	3150	2770	782	804	367
7	171	420	394	1970	2820	3610	2010	3020	2910	669	781	349
8	171	432	402	2210	2820	3510	2100	2910	2790	609	776	333
9	171	424	414	2620	2860	3270	2210	2830	2730	625	788	319
10	175	397	427	3450	2970	3090	2280	2820	2950	697	835	310
11	179	370	438	4970	3120	2930	2360	2860	3090	730	911	308
12	177	349	448	6720	3380	2790	2410	2830	2960	723	911	420
13	175	336	456	8210	3950	2710	2430	2640	2620	853	860	430
14	173	327	460	8660	4590	2680	2430	2340	2280	1270	854	398
15	175	322	464	8090	5800	2650	2420	1970	1980	1430	870	366
16	179	320	461	7240	7350	2630	2370	1640	1740	1570	910	361
17	185	320	476	6590	7890	2610	2300	1360	1570	1700	870	372
18	192	318	490	6100	7440	2560	2300	1150	1440	2040	944	383
19	200	317	492	5740	6820	2500	2230	984	1430	2540	1060	393
20	205	317	496	5400	6280	2450	2160	862	1410	2870	1200	405
21	205	316	511	5110	5800	2420	2080	773	1340	2900	1230	443
22	205	313	538	4810	5260	2430	2000	715	1290	2750	1160	474
23	200	311	573	4500	4820	2460	1940	646	1310	2550	1110	459
24	197	315	614	4240	4450	2500	1880	603	1420	2290	1120	420
25	198	317	667	3960	4130	2550	1850	583	1440	2040	1150	385
26	200	321	730	3700	3880	2560	2070	567	1360	1800	1160	370
27	205	326	804	3470	3710	2550	2150	566	1180	1590	1140	360
28	213	329	892	3290	3580	2490	2310	608	1130	1460	1120	355
29	223	331	983	3130	---	2400	2440	689	1110	1440	1100	352
30	228	333	1060	3030	---	2280	2560	780	1160	1370	1050	346
31	233	---	1180	2950	---	2180	---	989	---	1310	915	---
TOTAL	5903	10131	17129	129760	120800	87900	66010	57045	56930	45682	30534	11988
MEAN	190	338	553	4186	4314	2835	2200	1840	1898	1474	985	400
MAX	233	432	1180	8660	7890	3610	2560	3460	3090	2900	1230	706
MIN	171	250	337	1310	2820	2180	1850	566	1110	609	776	308
CFSM	.07	.13	.21	1.58	1.63	1.07	.83	.69	.72	.56	.37	.15
IN.	.08	.14	.24	1.82	1.70	1.23	.93	.80	.80	.64	.43	.17

CAL YR 1981 TOTAL 300227 MEAN 823 MAX 5360 MIN 171 CFSM .31 IN 4.21

WTR YR 1982 TOTAL 639812 MEAN 1753 MAX 8660 MIN 171 CFSM .66 IN 8.98

02202500 OGEECHEE RIVER NEAR EDEN, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1968 to current year.
PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1975 to September 1981.
WATER TEMPERATURES: October 1972 to September 1981.
INSTRUMENTATION.--Water-temperature recorder October 1972 to September 1981. Specific-conductance recorder October 1975 to September 1981.
EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum recorded, 183 micromhos Sept. 13, 1978; minimum, 23 micromhos Mar. 20, 1980.
WATER TEMPERATURES: Maximum, 32.0°C July 9-11, 13, 15, 21, 22, 1977, Aug. 9, 1980; minimum, 1.5°C Jan. 19-21, 1977.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT								
26...	1430	200	140	160	7.6	7.9	18.0	9.5
JAN								
19...	1430	5720	47	--	6.2	6.6	6.0	10.6
APR								
20...	1345	2160	70	63	6.9	6.9	19.0	6.6
JUN								
08...	1400	2770	56	65	6.8	6.8	24.0	5.6
JUL								
27...	1330	1570	70	68	6.7	6.6	27.0	5.3
AUG								
17...	1330	866	84	82	6.9	7.0	27.0	6.3

DATE	TUR-BID-ITY (FTU)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)
OCT												
26...	1.4	33	140	35	.00	12	1.2	17	50	1.3	1.4	48
JAN												
19...	13	39	130	14	--	4.2	.8	4.2	37	.5	1.2	--
APR												
20...	3.8	38	120	27	4.0	8.4	1.5	5.2	28	.5	1.1	23
JUN												
08...	4.4	27	200	21	.00	6.7	1.1	3.9	27	.4	1.3	21
JUL												
27...	3.6	K18	120	24	4.0	7.7	1.2	4.5	28	.4	.8	20
AUG												
17...	5.4	16	300	27	.00	8.8	1.2	6.1	32	.5	1.0	27

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)
OCT							
26...	13	7.3	<.1	8.9	110	90	59.4
JAN							
19...	11	8.1	<.1	9.9	36	--	556
APR							
20...	3.0	5.9	<.1	9.0	70	49	408
JUN							
08...	5.0	5.8	<.1	9.8	78	46	583
JUL							
27...	5.0	6.7	<.1	12	92	51	390
AUG							
17...	5.0	6.3	.1	12	170	57	397

02202500 OGEECHEE RIVER NEAR EDEN, GA.—Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT									
26...	.04	.010	.37	.050	.040	.030	--	--	--
JAN									
19...	.03	.040	.26	.030	.020	.010	6	93	96
APR									
20...	.12	.030	.76	.070	.030	.020	7	41	100
JUN									
08...	.13	.020	.80	.100	.080	.040	6	45	100
JUL									
27...	.12	.050	.60	.080	.060	.040	13	55	45
AUG									
17...	.16	.030	.60	.080	.050	.030	7	16	79

DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	BARIUM, DISSOLVED (UG/L AS BA)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COBALT, DISSOLVED (UG/L AS CO)
OCT										
26...	1	1	100	20	<1	5	20	10	2	<1
JAN										
19...	1	0	100	51	1	1	20	10	<1	<1
APR										
20...	2	1	100	35	1	<1	20	10	<1	<1
JUL										
27...	1	1	100	40	1	<1	10	10	1	2

DATE	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)
OCT									
26...	7	6	320	150	3	2	60	38	<.1
JAN									
19...	6	3	290	230	2	0	30	20	--
APR									
20...	8	7	1700	1300	4	--	50	44	<.1
JUL									
27...	6	4	1700	1200	4	0	110	92	<.1

DATE	MERCURY DISSOLVED (UG/L AS HG)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, TOTAL RECOVERABLE (UG/L AS AG)	SILVER, DISSOLVED (UG/L AS AG)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)
OCT									
26...	<.1	4	<1	<1	<1	<1	<1	50	5
JAN									
19...	--	4	3	<1	<1	<1	<1	40	25
APR									
20...	<.1	5	6	<1	<1	<1	<1	10	4
JUL									
27...	<.1	3	2	<1	<1	<1	<1	20	5

02202600 BLACK CREEK NEAR BLITCHTON, GA.

LOCATION.--Lat 32°10'04", long 81°29'18", Bryan County, Hydrologic Unit 03060202, at bridge on U.S. Highway 280 (State Highway 30), 4.2 mi (6.8 km) upstream from Mill Creek, 5.8 mi (9.3 km) southwest of Blitchton, and 8.7 mi (14.0 km) upstream from mouth.

DRAINAGE AREA.--232 mi^2 (601 km^2).

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1944, 1951, 1954, 1959, 1961-62, 1964-68, 1973. February 1980 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 30 ft (9 m), from topographic map.

REMARKS.--Records good except those for period of bridge construction, Oct. 1 to Jan. 19, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,590 ft^3/s (45.0 m^3/s) Mar. 15, 1980, gage height, 9.98 ft (3.042 m); zero flow was observed August 19, 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 900 ft^3/s (25.5 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 17	0500	*968	27.4	8.93	2.722	Apr. 28	1600	928	26.3	8.84	2.694

Minimum discharge, 1.0 ft^3/s (0.028 m^3/s) Oct. 20, 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	1.8	2.7	55	70	115	72	656	50	111	66	38
2	1.3	1.8	3.3	58	68	116	60	446	71	86	60	30
3	1.5	1.9	3.3	68	68	114	56	282	51	66	60	22
4	1.5	1.8	3.2	86	83	115	54	200	49	49	70	17
5	1.6	2.6	3.4	94	103	114	56	145	139	35	73	14
6	1.6	4.2	3.4	88	99	112	111	103	197	26	63	12
7	1.4	4.1	2.7	94	110	165	158	79	248	22	53	9.7
8	1.6	3.2	1.5	95	103	259	255	63	218	21	43	9.1
9	1.6	2.9	1.6	91	97	271	381	52	142	41	39	7.6
10	1.9	3.1	1.5	81	99	295	393	42	80	140	159	7.4
11	2.1	2.6	1.5	77	100	273	333	33	57	288	525	8.9
12	1.9	1.9	1.6	67	133	228	250	26	43	350	556	24
13	1.8	2.7	1.5	68	229	186	185	20	33	368	342	130
14	1.6	2.4	1.7	104	296	160	142	16	26	532	326	232
15	1.4	2.0	2.2	138	510	131	108	13	21	741	247	153
16	1.3	1.9	2.3	155	876	112	87	10	18	681	299	86
17	1.2	2.0	2.0	184	948	101	75	8.3	37	637	368	55
18	1.2	1.9	2.0	198	770	96	107	8.1	55	787	348	37
19	1.1	1.9	1.9	189	588	93	148	6.9	71	886	388	24
20	1.0	1.7	1.8	166	492	93	200	7.6	61	791	491	17
21	1.1	1.9	1.9	138	479	96	230	9.6	48	593	488	22
22	1.1	2.0	5.2	118	432	90	217	7.9	47	395	386	40
23	1.1	2.0	6.7	104	328	83	187	6.7	46	241	272	49
24	1.1	2.2	7.0	106	248	78	145	6.0	66	185	230	53
25	1.5	2.4	7.5	104	197	92	118	6.1	106	166	193	42
26	1.7	2.4	11	102	168	101	292	8.2	162	162	176	30
27	1.6	2.5	15	96	142	105	574	14	129	177	135	24
28	2.3	2.5	18	90	119	100	888	22	123	161	91	18
29	2.5	2.6	26	85	---	90	893	17	144	166	64	15
30	2.9	2.6	35	91	---	83	817	13	122	113	52	11
31	2.4	---	38	76	---	82	---	25	---	78	44	---
TOTAL	49.3	71.5	216.4	3266	7955	4149	7592	2352.4	2660	9095	6707	1237.7
MEAN	1.59	2.38	6.98	105	284	134	253	75.9	88.7	293	216	41.3
MAX	2.9	4.2	38	198	948	295	893	656	248	886	556	232
MIN	1.0	1.7	1.5	55	68	78	54	6.0	18	21	39	7.4
CFSM	.007	.01	.03	.45	1.22	.58	1.09	.33	.38	1.26	.93	.18
IN.	.01	.01	.03	.52	1.28	.67	1.22	.38	.43	1.46	1.08	.20

CAL YR 1981 TOTAL 4983.59 MEAN 13.7 MAX 284 MIN .69 CFSM .06 IN .80
WTR YR 1982 TOTAL 45351.30 MEAN 124 MAX 948 MIN 1.0 CFSM .53 IN 7.27

02203000 CANOOCHEE RIVER NEAR CLAXTON, GA.

LOCATION.--Lat 32°11'05", long 81°53'20", Evans County, Hydrologic Unit 03060208, on right bank 400 ft (122 m) upstream from bridge on State Highway 73, 2 mi (3.2 km) northeast of Claxton, and 10 mi (16.1 km) upstream from Lotts Creek.
DRAINAGE AREA.--555 mi^2 (1,440 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1937 to current year.
REVISED RECORDS.--WSP 1112: 1939-41, 1944.
GAGE.--Water-stage recorder. Datum of gage is 80.5 ft (24.54 m) National Geodetic Vertical Datum of 1929 (levels by Georgia Department of Transportation). Prior to Oct. 20, 1949, nonrecording gage at same site and datum.
REMARKS.--Records fair.
AVERAGE DISCHARGE.--45 years, 463 ft^3/s (13.11 m^3/s), 11.32 in/yr (288 mm/yr).
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,600 ft^3/s (357 m^3/s) May 26, 1966, gage height, 16.58 ft (5.054 m); minimum observed discharge, 0.86 ft^3/s (0.024 m^3/s) Sept. 8-14, Oct. 25, 26, Nov. 2, 1954.
EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,800 ft^3/s (51.0 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	(m^3/s)	Gage height (ft)	(m)	Date	Time	Discharge (ft^3/s)	(m^3/s)	Gage height (ft)	(m)
Feb. 15	1300	*2730	77.3	11.17	3.405	June 8	0600	2190	62.0	10.50	3.200

Minimum discharge, 1.4 ft^3/s (0.040 m^3/s) Oct. 22.

DISCHARGE. IN CUBIC FEET PER SECOND. WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.0	4.0	17	258	574	620	230	1310	246	214	186	53
2	5.9	4.5	17	401	564	615	201	1350	288	199	182	43
3	5.2	3.7	19	521	574	583	186	1350	257	166	171	34
4	5.5	3.8	29	569	645	565	186	1250	343	138	186	28
5	6.4	5.0	26	604	700	591	206	1020	759	133	193	24
6	6.8	7.4	22	686	777	640	585	679	1370	162	200	21
7	7.5	6.9	18	761	820	709	894	478	1760	137	234	17
8	7.5	5.9	15	831	828	740	1120	336	2140	116	214	14
9	7.1	6.4	14	846	872	779	1310	236	1830	105	200	13
10	8.6	5.4	14	842	933	776	1420	186	1450	165	241	12
11	9.4	7.5	15	890	942	700	1420	155	1150	233	214	12
12	7.9	7.6	15	884	941	658	1340	134	897	416	164	17
13	6.9	7.9	15	826	1220	671	1160	116	603	474	133	19
14	7.4	8.2	21	862	1770	630	926	102	410	491	162	17
15	6.7	9.2	32	969	2640	563	741	90	274	586	241	15
16	6.6	9.6	45	1080	2180	506	568	75	216	687	366	13
17	6.2	10	57	1170	1710	464	447	63	203	989	420	15
18	3.9	11	65	1170	1550	450	480	53	201	1300	313	17
19	2.9	12	77	1130	1470	510	480	45	218	1450	359	17
20	3.5	13	79	1130	1370	610	490	41	240	1250	356	16
21	2.9	13	81	1150	1270	678	472	40	272	904	344	14
22	2.2	15	78	1120	1160	673	401	36	234	661	315	14
23	3.0	17	72	1020	1030	620	368	30	195	571	416	17
24	3.7	17	66	894	915	556	331	25	163	490	461	19
25	3.7	18	72	813	823	538	327	23	179	378	264	19
26	3.5	21	79	786	723	507	704	25	258	292	190	16
27	2.4	21	69	723	654	486	980	40	199	259	162	14
28	2.3	20	75	656	623	477	1230	83	182	240	115	13
29	3.0	20	90	624	---	425	1330	101	171	238	97	12
30	4.9	20	101	600	---	345	1320	119	183	220	83	9.8
31	5.5	---	128	584	---	279	---	175	---	196	64	---
TOTAL	165.0	331.0	1523	25400	30278	17964	21853	9766	16891	13860	7246	564.8
MEAN	5.32	11.0	49.1	819	1081	579	728	315	563	447	234	18.8
MAX	9.4	21	128	1170	2640	779	1420	1350	2140	1450	461	53
MIN	2.2	3.7	14	258	564	279	186	23	163	105	64	9.8
CFSM	.01	.02	.09	1.48	1.95	1.04	1.31	.57	1.01	.81	.42	.03
IN.	.01	.02	.10	1.70	2.03	1.20	1.46	.65	1.13	.93	.49	.04

CAL YR 1981 TOTAL 42379.9 MEAN 116 MAX 1670 MIN 1.7 CFSM .21 IN 2.84
WTR YR 1982 TOTAL 145841.8 MEAN 400 MAX 2640 MIN 2.2 CFSM .72 IN 9.78

02203000 CANOOCHEE RIVER NEAR CLAXTON, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1968 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, Dissolved Oxygen, and Specific Conductance by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	TEMPER-ATURE, AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT 21...	1235	2.9	--	124	--	7.2	13.5	25.5	4.5	43
NOV 24...	0815	16	--	115	6.5	6.5	6.0	13.0	4.9	40
DEC 09...	1325	13	--	92	--	6.5	5.0	14.0	9.8	77
JAN 20...	1325	1140	--	57	4.8	5.0	7.5	22.0	10.4	87
FEB 17...	1350	1670	--	51	5.0	5.2	15.0	23.0	7.2	73
MAR 17...	1420	457	--	50	4.9	5.2	19.0	27.0	--	--
APR 21...	1320	472	46	46	5.1	5.2	18.0	28.0	6.5	70
MAY 19...	1230	45	48	47	5.4	5.6	22.0	25.5	5.6	64
JUN 22...	1135	236	46	47	5.3	5.3	25.0	28.5	6.0	74
JUL 27...	1210	259	--	--	5.4	5.2	25.0	33.0	4.9	59
AUG 18...	1345	322	--	45	5.4	5.3	24.0	30.0	5.9	70
SEP 13...	1200	20	--	51	5.9	6.0	25.0	30.0	6.4	77

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 21...	80	6	7.0	400	33	8	.34	3.33	.910	15
NOV 24...	60	5	4.6	430	27	2	.70	3.40	.420	15
DEC 09...	180	4	5.1	30	11	4	.36	.600	.270	25
JAN 20...	80	11	.5	110	<1.0	3	.08	<.020	.020	16
FEB 17...	120	6	.8	790	3.0	<1	.05	.040	.060	22
MAR 17...	160	5	.7	<30	3.0	3	.03	.040	.060	28
APR 21...	100	5	1.1	70	2.0	9	.04	.060	.040	25
MAY 19...	100	6	.8	<30	4.0	1	.10	.100	.070	25
JUN 22...	160	5	1.0	130	3.0	11	.09	.140	.080	26
JUL 27...	240	5	.6	50	4.0	1	.13	.040	.060	--
AUG 18...	200	7	.5	--	4.0	7	.03	.040	.080	21
SEP 13...	120	7	1.0	--	6.0	9	.08	.020	.070	15

02203519 CANOOCHEE RIVER NEAR RICHMOND HILL, GA.

LOCATION.--Lat 31°58'59", long 81°23'07", Bryan County, Hydrologic Unit 03060203, at bridge on State Highway 67, 5.3 mi (8.5 km) west of Richmond Hill, and 8.5 mi (13.7 km) upstream from Ogeechee River.

PERIOD OF RECORD.--July 1978 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Air Temperature, Water Temperature, pH, Dissolved Oxygen, and Specific Conductance by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	TEMPER-ATURE, AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT 21...	0840	--	71	6.8	7.0	14.0	16.5	8.0	77
NOV 23...	1410	--	85	6.6	7.0	8.0	17.5	10.6	90
DEC 09...	0920	--	92	6.9	7.2	6.0	11.0	10.0	81
JAN 20...	0940	--	100	--	5.1	8.0	17.5	8.4	71
FEB 17...	1020	--	54	4.9	4.9	14.0	18.5	6.3	62
MAR 17...	1010	--	72	5.0	5.1	18.0	21.5	3.4	36
APR 21...	0940	53	50	5.1	5.1	19.0	24.5	6.2	67
MAY 19...	0815	54	53	5.8	5.8	22.5	24.5	5.0	43
JUN 21...	1520	47	47	5.3	5.2	25.5	27.0	4.7	58
JUL 29...	1445	--	45	4.8	5.1	26.0	30.0	3.5	43
AUG 18...	1145	--	46	5.0	4.7	24.0	26.0	4.3	51
SEP 15...	0830	--	61	5.9	5.7	25.0	25.5	4.6	55

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 21...	60	3	.5	<30	14	<1	.18	.060	.240	8.5
NOV 23...	70	2	1.1	<30	16	2	.30	.020	.210	13
DEC 09...	100	3	.6	--	23	22	.38	.200	.420	13
JAN 20...	120	10	.4	210	3.0	<1	.13	.080	.040	22
FEB 17...	160	6	1.2	180	3.0	2	.02	.020	.040	27
MAR 17...	240	5	.4	<30	3.0	<1	.06	.090	.080	31
APR 21...	225	4	.8	50	4.0	12	.06	.060	.100	28
MAY 19...	70	6	.6	<30	5.0	2	.16	.140	.140	21
JUN 21...	200	4	.8	<30	4.0	8	.12	.040	.120	30
JUL 29...	300	3	1.2	90	6.0	7	.02	.080	.100	--
AUG 18...	320	7	.3	--	2.0	2	.14	.090	.100	30
SEP 15...	200	11	1.2	330	5.0	1	.24	.080	.160	21

02203578 NORTH NEWPORT RIVER AT HALFMOON LANDING, GA.

LOCATION.--Lat 31°40'39", long 81°18'05", Liberty County, Hydrologic Unit 03060204, at Halfmoon Landing, at mile 9.9 (15.9 km).

DRAINAGE AREA.--157 mi^2 (407 km^2).

PERIOD OF RECORD.--September 1966 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: July 1970 to September 1976.
pH: July 1970 to September 1976.
WATER TEMPERATURES: July 1970 to September 1976.
DISSOLVED OXYGEN: July 1970 to September 1976.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Air Temperature, Water Temperature, pH, Dissolved Oxygen, and Specific Conductance by U.S. Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum recorded, 45,500 micromhos Nov. 29, 1975; minimum recorded, 5,650 micromhos Sept. 1, 1971.
pH: Maximum recorded, 8.1 units Mar. 24, 1975; minimum recorded, 6.5 units July 11, 12, 1971.
WATER TEMPERATURES: Maximum, 33.5°C Sept. 1, 2, 1970; minimum, 6.0°C Jan. 20-24, 1976.
DISSOLVED OXYGEN: Maximum recorded, 12.8 mg/L Feb. 13, 1973; minimum reccorded, 1.4 mg/L July 30, 1976.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE (DEG C)	TEMPERATURE, AIR (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT 21...	0730	38000	7.6	7.6	20.5	15.0	6.1	67
NOV 23...	1305	12000	7.3	7.6	15.0	23.0	6.0	60
DEC 09...	0815	--	7.7	7.7	13.0	6.0	7.8	74
JAN 20...	0820	4600	7.4	7.8	8.5	16.0	7.6	65
FEB 17...	0830	25000	--	7.6	15.0	16.0	7.3	73
MAR 17...	0830	22000	7.1	7.5	20.0	19.0	5.4	60
APR 21...	0820	30300	--	7.6	20.5	24.0	6.1	68
MAY 19...	0710	27600	7.2	7.6	26.0	24.5	7.7	95
JUN 21...	1400	27600	7.3	7.4	28.0	27.0	4.1	53
JUL 29...	1620	22200	7.4	7.5	29.0	28.5	3.9	51
AUG 18...	0800	26800	7.4	7.4	28.0	26.0	3.7	47
SEP 15...	0700	24400	7.3	7.4	27.0	24.0	4.1	51

DATE	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	ALKALINITY LAB (MG/L AS CACO3)	CHLORIDE, DISSOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 21...	20	13	.7	<30	122	18000	46	<.02	1.16	.120	9.0
NOV 23...	30	7	.7	40	121	17000	29	.38	.140	.100	10
DEC 09...	10	8	.6	<30	120	18000	27	.02	1.44	.090	7.0
JAN 20...	20	11	1.0	20	107	16000	56	<.02	.850	.080	10
FEB 17...	30	6	.8	20	99	13000	14	.17	.070	.080	7.0
MAR 17...	50	8	.5	<20	83	10000	14	.08	.250	.120	15
APR 21...	40	9	.6	<20	89	13000	35	.05	.240	.060	6.0
MAY 19...	40	8	.8	<20	86	12000	17	.06	.200	.060	9.0
JUN 21...	30	8	.9	20	91	12000	67	.10	.280	.140	11
JUL 29...	100	16	1.8	<20	80	9100	49	.23	.110	.160	--
AUG 18...	70	32	.3	--	90	12000	150	.10	.060	.180	11
SEP 15...	80	26	1.3	20	83	10000	74	.04	.020	.160	19

02203800 SOUTH RIVER AT ATLANTA, GA.

LOCATION.--Lat 33°40'46", long 84°18'30", DeKalb County, Hydrologic Unit 03070103, at bridge on Bouldercrest Road at Atlanta, 0.4 mi (0.6 km) southeast of Interstate Highway 285, and 1.1 mi (1.8 km) upstream from Sugar Creek.
DRAINAGE AREA.--41.5 mi^2 (107 km^2).
PERIOD OF RECORD.--July 1975 to current year.
REMARKS.--Natural flow of stream includes some flow diverted from the Chattahoochee River for municipal supply. Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, Dissolved Oxygen, and Specific Conductance by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE (DEG C)	TEMPERATURE, AIR (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT										
08...	0845	50	330	318	7.2	7.0	19.0	19.0	2.9	31
NOV										
05...	0900	48	365	--	7.1	7.3	18.0	18.0	4.2	45
DEC										
08...	1630	59	--	332	7.2	7.2	15.0	15.0	5.8	59
JAN										
06...	0930	85	233	240	7.0	7.1	8.5	5.0	8.9	77
FEB										
01...	1605	78	--	240	7.1	7.3	12.0	14.0	8.4	79
MAR										
11...	1100	74	--	265	6.8	7.0	14.5	17.5	6.6	66
APR										
06...	1615	155	246	256	7.0	6.9	15.0	10.0	7.2	72
MAY										
04...	0945	74	270	284	6.9	7.1	17.0	19.5	1.5	16
JUN										
07...	0815	53	282	275	--	7.1	20.0	23.0	6.3	71
JUL										
01...	1000	63	--	243	6.8	7.2	19.5	24.0	6.5	72
AUG										
12...	1445	72	--	270	7.3	7.1	26.0	30.0	1.5	18
SEP										
07...	0645	47	297	296	7.2	7.2	20.0	14.0	5.5	54

DATE	TURBIDITY (JTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	ALKALINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT										
08...	14	>7.1	1100	70	14	212	1.4	6.44	3.20	20
NOV										
05...	7	>6.0	230	63	--	--	1.9	7.10	3.90	25
DEC										
08...	13	>7.9	930	62	12	208	1.6	6.70	3.28	22
JAN										
06...	30	15	230	51	30	192	1.2	3.20	1.44	13
FEB										
01...	17	14	13000	53	28	168	1.2	6.20	1.46	20
MAR										
11...	21	>15	130000	60	31	200	.96	5.00	2.00	20
APR										
06...	19	15	490000	43	22	192	1.5	3.80	.960	20
MAY										
04...	11	>14	700000	67	18	208	1.5	3.72	2.40	18
JUN										
07...	10	6.0	1700	51	12	192	2.7	5.05	2.40	11
JUL										
01...	18	8.2	1700000	48	30	192	2.4	2.30	1.28	12
AUG										
12...	20	>7.1	5400000	64	39	204	1.1	7.00	1.86	--
SEP										
07...	11	11	36000	63	13	192	2.1	6.24	2.84	15

02203900 SOUTH RIVER AT FLAKES MILL ROAD, NEAR ATLANTA, GA.

LOCATION.--Lat 33°39'58", long 84°13'29", DeKalb County, Hydrologic Unit 03070103, at bridge on Flakes Mill Road, 1.6 mi (2.6 km) upstream from Snapfinger Creek, and 15 mi (24 km) southeast of Atlanta.

DRAINAGE AREA.--99 mi^2 (256 km^2).

PERIOD OF RECORD.--Water years 1951-79 (annual maximum), August 1979 to current year.

GAGE.--Water-stage recorder. Datum of gage is 717.75 ft (218.77 m), National Geodetic Vertical Datum of 1929. July 14, 1950 to Aug. 23, 1979, crest-stage gage at same site and datum.

REMARKS.--Records good except those for period of no gage-height record, Mar. 5 to Apr. 7, which are fair. Low flow affected by operation of wastewater treatment plants upstream of gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,500 ft^3/s (354 m^3/s) Feb. 25, 1961, gage height, 21.3 ft (6.49 m); minimum daily discharge, 61 ft^3/s (1.73 m^3/s) Oct. 19, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,500 ft^3/s (70.8 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 4	0915	3380	95.7	8.79	2.679	Feb. 3	1430	*5260	149	11.94	3.639

Minimum daily discharge, 61 ft^3/s (1.73 m^3/s) Oct. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	71	71	388	622	168	142	98	131	144	156	278	151
2	69	73	135	175	232	128	98	126	99	92	132	818
3	62	74	87	1180	3830	123	120	121	291	87	96	273
4	65	74	77	2370	654	116	150	118	419	83	90	106
5	66	73	73	470	311	112	300	116	173	249	88	96
6	70	77	72	200	234	240	220	113	103	148	87	89
7	76	68	75	180	163	320	150	110	93	157	87	88
8	70	68	72	188	145	150	330	241	90	212	136	86
9	74	69	69	127	282	140	241	115	88	162	126	85
10	564	71	68	114	257	130	143	107	86	109	115	112
11	132	70	69	114	148	130	130	107	83	269	246	200
12	83	70	69	111	139	120	122	104	120	147	120	104
13	74	69	68	130	151	120	121	102	237	93	92	95
14	69	68	387	145	122	200	130	99	97	327	90	101
15	72	67	217	145	122	700	138	96	89	600	89	90
16	67	76	107	120	449	270	155	96	86	643	86	86
17	66	76	90	110	614	400	219	120	88	262	132	85
18	64	70	79	105	202	250	169	224	84	390	215	87
19	61	71	76	159	153	190	180	149	79	265	374	82
20	64	174	75	151	137	150	647	118	77	177	110	81
21	65	78	75	230	127	180	231	118	78	106	98	80
22	74	68	103	144	118	150	149	120	280	189	92	79
23	84	68	126	329	114	130	129	115	122	205	89	77
24	82	130	106	192	112	130	120	110	85	160	89	77
25	281	78	1200	136	109	140	1040	196	79	139	136	78
26	421	72	230	124	140	120	713	144	78	104	172	81
27	113	73	136	115	487	110	441	109	558	475	92	103
28	86	68	290	111	217	110	202	102	405	119	90	82
29	78	66	299	108	---	100	158	98	486	96	89	79
30	75	310	123	106	---	100	141	104	120	155	84	76
31	72	---	1460	288	---	100	---	114	---	189	84	---
TOTAL	3370	2540	6501	8799	9937	5501	7185	3843	4917	6565	3904	3727
MEAN	109	84.7	210	284	355	177	240	124	164	212	126	124
MAX	564	310	1460	2370	3830	700	1040	241	558	643	374	818
MIN	61	66	68	105	109	100	98	96	77	83	84	76
CFSM	1.10	.86	2.12	2.87	3.59	1.79	2.42	1.25	1.66	2.14	1.27	1.25
IN.	1.27	.95	2.44	3.31	3.73	2.07	2.70	1.44	1.85	2.47	1.47	1.40

CAL YR 1981 TOTAL 54047 MEAN 148 MAX 3170 MIN 61 CFSM 1.50 IN 20.31
WTR YR 1982 TOTAL 66789 MEAN 183 MAX 3830 MIN 61 CFSM 1.85 IN 25.10

02203965 SOUTH RIVER NEAR LITHONIA, GA.

LOCATION.--Lat 33°39'14", long 84°11'12", DeKalb County, Hydrologic Unit 03070103, at bridge on State Highway 155, 2.0 mi (3.2 km) south of State Highway 212, 2.4 mi (3.8 km) downstream from Snapfinger Creek, and 6.2 mi (10 km) southwest of Lithonia.

PERIOD OF RECORD.--July 1975 to current year.

REMARKS.--Natural flow of stream includes some flow diverted from the Chattahoochee River for municipal supply. Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Air Temperature, Water Temperature, pH, Dissolved Oxygen, and Specific Conductance by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	TEMPER-ATURE, AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT									
08...	0945	290	267	7.1	7.0	18.5	19.5	3.1	34
NOV									
05...	1030	--	358	7.1	7.4	17.5	22.5	4.5	48
DEC									
09...	0930	270	272	7.2	7.2	10.0	3.5	6.5	59
JAN									
06...	1030	153	165	7.0	7.1	7.0	9.5	10.2	84
FEB									
01...	1500	--	150	--	7.3	10.0	10.0	10.2	91
MAR									
09...	1030	176	155	7.0	7.2	9.5	10.0	9.2	--
APR									
06...	1525	--	132	7.0	7.0	14.0	9.0	10.0	98
MAY									
04...	1030	220	211	--	7.4	17.0	24.0	6.9	73
JUN									
07...	1015	215	208	--	7.2	20.5	25.5	6.2	69
JUL									
01...	1030	--	186	7.0	7.2	20.5	24.0	6.6	74
AUG									
12...	1530	--	182	7.2	7.2	25.0	34.0	4.9	60
SEP									
07...	0745	237	232	7.3	7.3	19.0	16.5	4.9	50

DATE	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT										
08...	9	>7.1	9300	63	4	172	1.3	5.04	3.30	14
NOV										
05...	12	>5.5	210	73	12	232	1.0	6.00	3.40	15
DEC										
09...	15	>7.0	3300	64	21	184	1.0	6.12	3.28	24
JAN										
06...	32	7.1	430	33	31	148	1.3	1.98	.820	6.0
FEB										
01...	40	>8.4	40	36	39	156	.77	2.88	1.19	17
MAR										
09...	15	8.3	28000	42	14	128	1.0	3.20	1.21	7.0
APR										
06...	30	7.1	230000	28	36	136	.99	.860	.680	12
MAY										
04...	8	7.2	64000	55	10	152	.74	3.72	1.62	8.0
JUN										
07...	12	7.2	1100	47	14	148	1.5	3.78	1.56	8.5
JUL										
01...	26	6.6	430000	43	52	164	1.1	1.70	1.08	6.5
AUG										
12...	28	6.8	22000	46	28	156	.42	3.90	1.40	--
SEP										
07...	10	8.2	2300	49	10	160	2.1	4.56	1.96	8.5

02204285 PATES CREEK NEAR FLIPPEN, GA.

LOCATION.--Lat 33°29'34", long 84°14'44", Henry County, Hydrologic Unit 03070103, on left upstream headwall of culvert on county road, 3.6 mi (5.8 km) west of Flippen, and 3.8 mi (6.1 km) upstream from Little Cotton Indian Creek.
DRAINAGE AREA.--11.9 mi^2 (30.8 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—August 1977 to current year.
GAGE.--Water-stage recorder. Altitude of gage is 722 ft (220 m), from topographic map.
REMARKS.--Records fair except those for periods of doubtful gage-height record, June 7-22, which are poor. Flow during periods of low water affected by Clayton County spray irrigation of treated wastewater.
AVERAGE DISCHARGE.—5 years, 12.7 ft^3/s (0.360 m^3/s), 14.49 in/yr (368 mm/yr).
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 816 ft^3/s (23.1 m^3/s) Nov. 5, 1977, gage height, 9.40 ft (2.865 m); minimum daily discharge, 1.1 ft^3/s (0.031 m^3/s) Sept. 9-11, 1981.
EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 350 ft^3/s (9.91 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 3	1000	*457	12.9	5.55	1.692

Minimum daily discharge, 2.4 ft^3/s (0.068 m^3/s) Oct. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.0	4.9	9.3	43	11	19	9.1	15	7.8	6.9	18	4.7
2	4.9	5.1	7.9	19	9.0	16	8.6	13	7.1	6.2	11	10
3	5.2	5.5	4.7	18	209	15	12	12	7.1	5.6	6.4	6.3
4	5.3	6.2	3.3	106	62	13	10	11	8.0	5.2	6.1	4.5
5	5.3	6.3	2.7	36	28	12	49	10	7.6	6.6	5.9	3.9
6	5.3	7.0	2.7	18	18	27	34	9.7	6.8	5.6	5.5	3.7
7	5.5	7.0	2.7	13	14	63	21	9.5	6.2	5.5	5.4	3.5
8	5.5	6.9	2.7	10	11	21	18	13	5.8	6.1	5.8	3.4
9	5.9	7.4	3.0	8.7	26	16	17	10	5.4	17	5.5	4.2
10	6.9	7.7	3.5	7.8	29	14	14	8.9	5.2	15	6.1	5.7
11	5.7	8.2	3.5	7.5	19	12	13	8.9	5.0	11	8.2	6.6
12	5.3	8.2	3.6	7.0	15	11	11	8.4	6.4	9.1	7.9	5.8
13	5.3	6.8	3.9	6.8	15	10	11	8.0	7.5	9.3	5.7	6.3
14	5.3	6.8	7.4	6.6	12	9.5	11	7.7	6.0	9.2	5.3	6.1
15	5.3	6.8	8.2	6.9	11	12	13	7.2	5.2	9.2	5.1	6.8
16	4.8	7.1	5.8	6.9	24	19	15	7.0	4.9	11	5.0	5.8
17	4.8	6.9	4.4	7.0	53	15	14	13	4.7	8.5	5.4	4.6
18	4.8	6.8	3.9	8.8	27	14	15	52	4.6	10	5.3	4.4
19	4.9	6.8	4.1	9.4	20	13	14	53	4.5	11	5.3	3.9
20	5.0	8.0	3.6	11	16	12	37	28	4.4	12	4.8	3.6
21	4.6	7.4	3.3	11	15	11	28	19	4.3	16	4.7	3.3
22	3.1	7.4	4.1	10	12	12	20	15	5.0	15	4.5	3.1
23	2.4	7.6	3.9	11	13	10	16	14	5.3	13	4.4	3.2
24	3.2	5.2	4.0	12	12	10	14	13	5.3	15	4.3	3.7
25	4.8	2.8	35	9.3	11	11	70	15	4.8	10	4.5	4.2
26	6.2	2.7	19	8.0	12	9.8	62	15	4.8	10	4.7	4.0
27	3.9	2.8	9.4	7.6	26	9.0	36	12	9.4	11	4.4	4.4
28	2.8	3.1	7.3	6.8	26	8.6	24	11	9.4	9.7	4.1	4.2
29	3.2	3.1	7.7	6.7	---	8.5	19	9.4	10	6.1	3.9	4.5
30	4.4	4.3	6.1	6.3	---	9.1	16	8.8	8.7	7.5	3.7	4.5
31	4.9	---	71	9.1	---	9.1	---	8.3	---	17	3.6	---
TOTAL	149.5	182.8	261.7	455.2	756.0	451.6	651.7	445.8	187.2	310.3	180.5	142.9
MEAN	4.82	6.09	8.44	14.7	27.0	14.6	21.7	14.4	6.24	10.0	5.82	4.76
MAX	6.9	8.2	71	106	209	63	70	53	10	17	18	10
MIN	2.4	2.7	2.7	6.3	9.0	8.5	8.6	7.0	4.3	5.2	3.6	3.1
CFSM	.41	.51	.71	1.24	2.27	1.23	1.82	1.21	.52	.84	.49	.40
IN.	.47	.57	.82	1.42	2.36	1.41	2.04	1.39	.59	.97	.56	.45

CAL YR 1981 TOTAL 2913.4 MEAN 7.98 MAX 250 MIN 1.1 CFSM .67 IN 9.11
WTR YR 1982 TOTAL 4175.2 MEAN 11.4 MAX 209 MIN 2.4 CFSM .96 IN 13.05

02204285 PATES CREEK NEAR FLIPPEN, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1978 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)
OCT					
20...	1440	4.8	14.0	10	.13
DEC					
04...	1055	3.1	7.0	39	.33
APR					
07...	1245	19	13.0	47	2.4
AUG					
11...	0940	7.4	23.0	26	.52
SEP					
21...	1400	3.1	20.0	12	.10

02204500 SOUTH RIVER NEAR MCDONOUGH, GA.

LOCATION.--Lat 33°29'48", long 84°00'53", Henry-Newton County line, Hydrologic Unit 03070103, on left bank 20 ft (6 m) downstream from Butler Bridge, 0.2 mi (0.3 km) upstream from Beech Creek, 2 mi (3.2 km) downstream from Big Walnut Creek, 4.5 mi (7.2 km) downstream from Cotton River, and 9 mi (14.5 km) northeast of McDonough.

DRAINAGE AREA.--456 mi^2 (1,180 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1939 to September 1960. Water years 1961-65 (annual maximum only). October 1975 to September 1982 (discontinued).

REVISED RECORDS.--WSP 1624: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 564.99 ft (172.209 m) National Geodetic Vertical Datum of 1929 (U.S. Army Corps of Engineers' bench mark).

REMARKS.--Records fair except those for periods of no gage-height record, Dec. 21 to Jan. 19, Mar. 6 to Apr. 8, and Sept. 11-23, which are poor.

AVERAGE DISCHARGE.--28 years, 576 ft^3/s (16.31 m^3/s), 17.15 in/yr (436 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 34,500 ft^3/s (977 m^3/s) Jan. 7, 1946, gage height, 24.7 ft (7.53 m), from rating curve extended above 25,000 ft^3/s (708 m^3/s); minimum daily, 54 ft^3/s (1.53 m^3/s) Oct. 12, 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 5,000 ft^3/s (142 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 4	unknown	7360	208	16.13	4.916
Feb. 4	1130	*9330	264	17.58	5.358
Apr. 26	1330	5420	153	14.13	4.307

Minimum daily discharge, 100 ft^3/s (2.83 m^3/s) Oct. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	107	171	520	2500	759	828	440	703	631	375	675	183
2	106	167	669	1600	535	669	430	650	567	332	588	870
3	103	165	347	1300	4030	597	480	604	437	275	430	830
4	100	165	242	5000	8250	551	550	562	726	255	318	421
5	101	169	205	3500	1920	519	900	534	939	382	285	283
6	101	173	176	1700	1280	510	1100	513	547	448	291	242
7	102	171	167	1100	947	1000	1000	496	432	328	283	226
8	106	163	165	800	798	1500	700	579	388	348	291	207
9	105	161	163	700	790	900	1040	657	365	345	287	196
10	149	160	153	600	1230	750	705	499	347	382	340	190
11	629	167	147	500	862	650	592	465	329	540	972	220
12	259	169	151	450	717	580	546	442	314	540	933	350
13	166	165	149	420	739	550	517	425	396	450	528	300
14	141	162	201	500	658	520	507	407	491	432	383	250
15	135	159	696	550	582	1000	500	394	356	816	329	225
16	136	161	485	500	649	1900	623	382	313	1440	295	200
17	139	165	315	450	2680	1300	584	385	318	882	277	180
18	137	167	251	410	1350	1300	773	425	308	591	310	170
19	133	157	215	450	877	1700	572	774	296	892	594	160
20	130	158	193	557	746	1300	1060	607	285	642	435	160
21	129	241	180	542	662	900	1360	637	273	478	301	155
22	130	159	210	614	588	700	776	592	270	388	268	155
23	136	135	220	524	537	750	593	540	490	488	244	150
24	159	136	500	906	513	650	521	487	305	490	226	151
25	185	184	800	605	489	600	939	454	240	460	216	152
26	624	159	1400	519	472	620	4480	562	207	370	243	154
27	480	140	800	470	854	620	1970	518	237	448	260	174
28	269	138	500	438	1370	550	1300	432	938	500	211	202
29	203	135	600	422	---	500	935	396	888	340	208	162
30	176	139	500	412	---	460	788	380	561	299	196	152
31	175	---	1000	422	---	450	---	847	---	428	187	---
TOTAL	5751	4861	12320	29461	35884	25424	27281	16348	13194	15384	11404	7470
MEAN	186	162	397	950	1282	820	909	527	440	496	368	249
MAX	629	241	1400	5000	8250	1900	4480	847	939	1440	972	870
MIN	100	135	147	410	472	450	430	380	207	255	187	150
CFSM	.41	.36	.87	2.08	2.81	1.80	1.99	1.16	.97	1.09	.81	.55
IN.	.47	.40	1.01	2.40	2.93	2.07	2.23	1.33	1.08	1.26	.93	.61

CAL YR 1981 TOTAL 134757 MEAN 369 MAX 7260 MIN 100 CFSM .81 IN 10.99
WTR YR 1982 TOTAL 204782 MEAN 561 MAX 8250 MIN 100 CFSM 1.23 IN 16.71

02204500 SOUTH RIVER NEAR MCDONOUGH, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1957 to May 1958, January 1978 to September 1982 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
OCT					
20...	1550	126	15.0	7	2.4
DEC					
04...	1400	235	9.0	23	15
FEB					
24...	1130	515	--	22	31
APR					
08...	0915	729	12.5	40	79
MAY					
18...	1415	400	21.5	24	26
JUN					
24...	1000	325	23.0	29	25
AUG					
12...	0830	997	23.5	165	444
SEP					
23...	1000	147	16.5	14	5.6

02204520 SOUTH RIVER AT SNAPPING SHOALS, GA.

LOCATION.--Lat 33°29'04", long 83°57'29", Newton-Henry County line, Hydrologic Unit 03070103, at bridge on State Highway 81, 0.2 mi (0.3 km) south of State Highway 212, and 0.5 mi (0.8 km) upstream from Snapping Shoals Creek.
DRAINAGE AREA.--465 mi^2 (1,200 km^2).
PERIOD OF RECORD.--July 1975 to current year.
REMARKS.--Natural flow of stream includes some flow diverted from the Chattahoochee River for municipal supply. Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, Dissolved Oxygen, and Specific Conductance by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	TEMPER-ATURE, AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT 08...	1100	100	223	221	7.0	6.9	17.0	22.5	4.7	49
NOV 11...	1145	180	--	162	6.9	7.1	18.0	21.5	4.5	--
DEC 09...	1045	145	173	169	7.0	7.0	7.0	6.5	7.2	60
JAN 06...	1200	1000	67	71	6.7	6.7	6.5	14.0	10.0	82
FEB 01...	1145	850	--	132	6.9	7.1	9.0	7.0	9.4	81
MAR 08...	1530	900	64	59	--	7.0	10.5	12.0	9.8	--
APR 06...	1210	1500	67	63	--	7.2	9.0	12.0	8.0	77
MAY 04...	1145	630	100	103	6.7	7.1	17.0	28.0	6.8	72
JUN 07...	1030	450	105	102	--	6.9	21.0	25.5	6.7	76
JUL 01...	1210	375	--	95	6.6	7.0	22.5	26.5	6.8	79
AUG 12...	1030	1000	--	60	6.8	--	24.0	34.0	5.9	70
SEP 07...	1015	225	153	152	7.0	7.1	19.0	32.0	5.6	79

DATE	TUR-BID-ITY (JTU)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 08...	5	16	1.8	150	34	2	144	4.1	.420	.80	2.10	5.0
NOV 11...	5	14	3.3	230	31	7	116	2.5	.740	1.10	1.50	5.0
DEC 09...	8	10	3.9	430	14	5	120	2.3	1.64	2.30	.960	4.7
JAN 06...	68	19	3.4	2300	12	64	136	.84	.160	.60	.280	4.0
FEB 01...	35	32	>8.5	1300	30	71	168	.97	1.45	2.00	1.18	11
MAR 08...	56	13	3.5	23000	17	72	140	.60	.180	.70	.230	5.0
APR 06...	105	27	5.3	70000	13	109	212	.54	.110	1.20	.580	12
MAY 04...	7	8	1.5	3300	23	10	96	1.5	.240	.50	.550	8.0
JUN 07...	13	3	.9	2000	20	14	98	1.4	.200	.40	.440	3.5
JUL 01...	17	14	.9	17000	19	14	76	1.2	.030	.30	.360	3.0
AUG 12...	130	34	3.1	17000	13	190	272	.36	.060	1.20	.500	--
SEP 07...	14	13	1.4	490	29	16	116	1.9	.060	.50	.770	4.5

02205000 WILDCAT CREEK NEAR LAWRENCEVILLE, GA.

LOCATION.--Lat 34°00'08", long 84°00'18", Gwinnett County, Hydrologic Unit 03070103, on left bank 75 ft (23 m) upstream from highway bridge, 0.7 mi (1.1 km) upstream from mouth, 1.1 mi (1.8 km) east of State Highway 20, and 3.2 mi (5.1 km) north of Lawrenceville.

DRAINAGE AREA.--1.59 mi^2 (4.12 km^2).

PERIOD OF RECORD.--October 1953 to September 1982 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 967.55 ft (294.909 m), National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except those for periods of doubtful or missing gage-height records, Nov. 6 to Dec. 3, Apr. 27 to May 18, and Aug. 15 to Sept. 30, which are poor.

AVERAGE DISCHARGE.--29 years, 1.70 ft^3/s (0.048 m^3/s), 14.52 in/yr (369 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 806 ft^3/s (22.8 m^3/s) May 6, 1956, gage height, 8.20 ft (2.499 m), from rating curve extended above 45 ft^3/s (1.27 m^3/s), on basis of slope-area measurement at gage height, 4.95 ft (1.509 m) and slope-area estimate at gage height, 8.20 ft (2.499 m); maximum gage height, 9.80 ft (2.987 m) May 23, 1980; no flow for part of each day Sept. 1-6, Oct. 7, 1954, no flow Sept. 24 to Oct. 8, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 60 ft^3/s (1.70 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 3	1100	64	1.81	3.61	1.100
Jan. 4	0400	145	4.11	5.03	1.533
Feb. 3	0200	80	2.27	3.99	1.216
Apr. 14	0715	91	2.58	4.16	1.268
Aug. 9	2115	140	3.96	4.96	1.512
Aug. 11	0045	*155	4.39	5.16	1.573

Minimum discharge, no flow Oct. 1-8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.27	1.0	3.8	1.6	3.7	1.6	1.3	2.0	.78	1.3	.80
2	.00	.30	.65	2.0	2.1	2.8	1.4	1.2	1.0	.74	.63	1.5
3	.00	.28	.55	19	35	2.1	1.8	1.1	.95	.69	.57	2.5
4	.00	.32	.50	26	7.0	1.9	1.5	1.0	3.2	.72	.55	1.5
5	.00	.34	.47	3.6	3.5	1.3	5.1	1.0	1.7	.93	.56	1.1
6	.00	.37	.42	2.1	2.3	1.8	2.4	1.0	1.1	.88	.55	.90
7	.00	.37	.42	1.5	1.7	7.9	1.9	2.0	.87	.77	.52	.70
8	.00	.36	.42	1.3	1.5	4.2	4.5	3.0	.70	.76	1.3	.65
9	.01	.36	.42	1.2	1.7	3.2	3.5	1.5	.59	.76	12	.60
10	.13	.36	.42	.97	1.8	2.5	2.4	1.1	.58	.78	8.0	.55
11	.08	.35	.42	1.1	1.5	1.7	2.2	.90	.56	.78	14	.60
12	.09	.35	.42	.98	1.4	1.3	2.1	.80	.60	.77	5.8	.70
13	.09	.36	.38	.92	1.4	1.2	1.9	.75	1.7	.70	4.7	.65
14	.09	.37	2.1	.87	1.2	1.0	14	.70	.84	.68	2.6	.63
15	.11	.38	1.4	.87	1.1	4.0	4.5	.65	.71	2.6	1.7	.60
16	.11	.39	.80	.97	4.2	3.0	3.0	.62	.66	5.9	1.3	.58
17	.11	.40	.65	1.2	5.3	4.5	4.5	.60	.63	2.5	.90	.56
18	.14	.40	.57	.90	2.9	3.8	3.0	3.5	.66	1.7	1.5	.54
19	.15	.41	.52	1.1	2.1	2.7	2.8	1.8	.65	3.2	1.3	.52
20	.12	.60	.48	1.3	1.7	2.2	4.8	2.7	.61	3.0	1.0	.50
21	.11	.48	.45	1.8	1.4	2.1	2.7	1.3	.58	1.1	.90	.50
22	.10	.46	.52	1.6	1.3	2.0	2.3	.76	4.9	.83	.80	.48
23	.18	.45	.54	2.4	1.1	1.6	1.9	.69	1.6	.77	.70	.48
24	.15	.46	.56	2.0	1.1	1.5	1.8	.68	.93	.79	.65	.48
25	.81	.48	5.3	1.5	1.2	1.8	11	.71	.84	.74	.60	.47
26	.52	.50	1.5	1.3	2.4	2.4	8.0	1.8	.79	3.4	.56	.45
27	.22	.50	.95	1.2	4.8	1.8	9.0	1.9	1.0	2.7	.54	.70
28	.20	.52	.90	1.1	4.6	1.5	5.0	.80	.95	1.5	.52	.60
29	.21	.58	.84	1.0	---	1.4	2.5	.70	.92	.77	.50	.55
30	.20	2.0	.69	1.0	---	1.3	1.5	.65	.83	.65	.48	.50
31	.22	---	9.1	2.2	---	1.0	---	1.5	---	1.1	.46	---
TOTAL	4.15	13.77	34.36	88.78	98.9	75.2	114.6	38.71	33.65	43.99	67.49	21.89
MEAN	.13	.46	1.11	2.86	3.53	2.43	3.82	1.25	1.12	1.42	2.18	.73
MAX	.81	2.0	9.1	26	35	7.9	14	3.5	4.9	5.9	14	2.5
MIN	.00	.27	.38	.87	1.1	1.0	1.4	.60	.56	.65	.46	.45
CFSM	.08	.29	.70	1.80	2.22	1.53	2.40	.79	.70	.89	1.37	.46
IN.	.10	.32	.80	2.08	2.31	1.76	2.68	.91	.79	1.03	1.58	.51

CAL YR 1981 TOTAL 243.34 MEAN .67 MAX 11 MIN .00 CFSM .42 IN 5.69
WTR YR 1982 TOTAL 635.49 MEAN 1.74 MAX 35 MIN .00 CFSM 1.09 IN 14.86

02206500 YELLOW RIVER NEAR SNELLVILLE, GA.

LOCATION.--Lat 33°51'11", long 84°04'45", Gwinnett County, Hydrologic Unit 03070103, at county highway bridge, 3.2 mi (5.1 km) west of Snellville, 4 mi (6.4 km) downstream from Sweetwater Creek, 6.5 mi (10.5 km) northeast of town of Stone Mountain, and 7.5 mi (12.1 km) upstream from Stone Mountain Creek.

DRAINAGE AREA.--134 mi^2 (347 km^2).

PERIOD OF RECORD.--November 1969 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, Dissolved Oxygen, and Specific Conductance by U.S. Geological Survey. Water-discharge records for the water years 1943-71 are published in reports of the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	TEMPER-ATURE, AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
NOV 11...	1000	34	--	172	--	7.4	18.0	20.0	7.1	75
FEB 01...	0935	230	--	69	--	7.2	7.0	3.0	10.4	86
MAY 04...	0630	129	78	78	7.0	7.3	16.0	14.0	8.6	90
AUG 12...	0745	238	63	57	7.2	6.9	22.5	24.5	7.1	83

DATE	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV 11...	7	.7	110	44	2.1	.130	.210	3.4
FEB 01...	66	2.1	3300	16	.36	.110	.130	5.0
MAY 04...	11	.6	110	22	.68	.040	.060	1.0
AUG 12...	80	1.9	2200	15	.55	.070	.180	--

02207300 YELLOW RIVER AT MILSTEAD, GA.

LOCATION.--Lat 33°41'23", long 83°59'49", Rockdale County, Hydrologic Unit 03070103, at bridge on State Highway 20 at Milstead, 2.2 mi (3.5 km) northeast of Conyers.

DRAINAGE AREA.--210 mi2 (540 km2), approximately.

PERIOD OF RECORD.--July 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, Dissolved Oxygen, and Specific Conductance by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	TEMPER-ATURE, AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT										
08...	1530	20	--	159	7.2	7.0	18.0	21.0	6.6	71
NOV										
11...	1100	60	--	121	7.1	7.2	18.0	19.0	6.9	74
DEC										
09...	1530	90	92	102	7.4	7.3	7.0	6.5	10.6	89
JAN										
06...	1545	1350	53	50	6.6	6.7	7.5	17.0	10.8	91
FEB										
01...	1030	510	--	74	--	7.1	8.0	5.0	10.2	86
MAR										
08...	1000	640	--	52	7.2	7.0	9.5	8.0	10.9	96
APR										
06...	0850	1020	52	55	7.2	6.9	12.0	5.0	10.7	101
MAY										
04...	0815	340	67	65	7.0	7.2	17.0	14.0	8.6	91
JUN										
07...	1515	230	72	69	--	7.0	22.0	28.5	7.7	89
JUL										
01...	1130	200	--	63	7.0	7.2	22.0	26.5	7.8	90
AUG										
12...	0900	600	52	48	6.9	6.9	23.0	25.0	7.7	92
SEP										
07...	0900	110	82	82	7.2	7.2	20.0	24.5	6.1	73

DATE	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, CON-FIRMED (MPN)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT									
08...	11	.9	2300	<30	35	.80	.080	.070	2.0
NOV									
11...	15	1.4	1500	150	35	.55	.090	.060	3.2
DEC									
09...	11	.8	750	750	28	.72	.120	.080	1.6
JAN									
06...	72	1.7	7500	230	9.0	.34	.020	.120	5.0
FEB									
01...	33	1.0	11000	2300	19	.52	.110	.100	4.0
MAR									
08...	60	1.5	14000	790	13	.39	.040	.120	4.0
APR									
06...	100	2.0	22000	4900	14	.33	.030	.160	10
MAY									
04...	10	.7	1700	130	20	.52	.040	.040	<1.0
JUN									
07...	17	.3	3300	330	21	.43	.060	.040	3.5
JUL									
01...	20	.3	7900	2300	18	.46	.050	.100	2.0
AUG									
12...	140	1.8	94000	7900	14	.96	.170	.180	--
SEP									
07...	22	1.1	3300	220	23	.44	.040	.060	3.0

02207500 YELLOW RIVER NEAR COVINGTON, GA.

LOCATION.--Lat 33°36'52", long 83°54'54", Newton County, Hydrologic Unit 03070103, at downstream end of left bank pier of bridge on State Highway 12, 50 ft (15 m) downstream from Interstate Highway 20, 0.2 mi (0.3 km) downstream from Georgia Railroad bridge, 0.5 mi (0.8 km) downstream from Gum Creek, and 3.5 mi (5.6 km) northwest of Covington.
DRAINAGE AREA.--378 mi^2 (979 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September to December 1897, May 1899 to December 1901, July 1944 to September 1960, October 1975 to September 1982 (discontinued). Published as "at Almon", 1897-1901. Water years 1961-65 (annual maximum only).
REVISED RECORDS.--WSP 1112: 1945(M), 1946. WSP 1624: Drainage area.
GAGE.--Water-stage recorder. Datum of gage is 616.99 ft (188.059 m) National Geodetic Vertical Datum of 1929. September to December 1897, staff gage at about same site at different datum. May 1899 to December 1901, staff gage at site 1 mi (1.6 km) upstream at different datum.
REMARKS.--Records good.
AVERAGE DISCHARGE.--25 years (1899-1901, 1944-60, 1975-82), 469 ft^3/s (13.28 m^3/s), 16.85 in/yr (428 mm/yr).
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,200 ft^3/s (459 m^3/s) Nov. 29, 1948, gage height, 20.3 ft (6.19 m); minimum daily, 10 ft^3/s (0.28 m^3/s) Oct. 7, 1954.
EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,500 ft^3/s (99.1 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 5	1230	5020	142	14.22	4.334	Feb. 4	2200	*5120	145	14.34	4.371

Minimum daily discharge, 32 ft^3/s (0.91 m^3/s) Oct. 3, gage height, 1.69 ft (0.515 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	86	379	2130	537	775	395	629	354	255	222	113
2	33	84	538	1820	523	642	382	558	554	201	245	490
3	32	88	333	1040	1680	562	396	503	369	170	197	585
4	33	86	223	2920	4630	508	428	461	477	155	155	415
5	35	85	176	4830	4320	476	593	429	701	151	136	263
6	35	86	153	3410	1970	456	1300	432	501	145	151	198
7	36	82	143	1390	1070	826	897	407	345	138	138	165
8	36	80	136	898	804	1300	653	441	261	139	128	145
9	35	77	129	678	724	849	1200	509	229	137	139	134
10	49	77	120	542	841	673	1180	395	208	185	241	133
11	73	80	115	449	717	591	756	336	189	287	1260	139
12	77	81	112	398	608	541	614	307	180	313	993	156
13	65	80	110	398	595	502	551	284	231	222	488	161
14	58	80	157	410	555	477	522	269	344	232	331	153
15	54	79	458	396	499	697	738	246	240	241	269	145
16	53	80	427	381	547	1250	653	240	198	296	230	134
17	56	81	294	390	1370	1010	618	322	189	400	208	124
18	55	81	226	380	1310	1220	878	295	175	269	264	118
19	51	81	188	370	854	1000	715	480	169	297	316	115
20	50	86	165	440	780	746	809	396	160	259	235	109
21	52	97	151	470	654	625	1020	508	144	203	206	101
22	53	94	167	557	560	596	744	440	141	187	182	95
23	54	88	176	525	497	554	579	427	592	170	164	90
24	58	94	184	755	462	513	501	343	353	198	149	89
25	66	122	606	626	449	501	732	305	232	168	137	90
26	168	121	1120	498	433	542	2080	294	188	159	136	94
27	264	104	645	444	621	550	2360	300	176	149	133	202
28	158	97	435	398	939	469	1550	286	336	145	137	230
29	115	111	482	369	---	421	975	251	478	138	129	159
30	99	120	432	353	---	405	746	237	364	132	120	134
31	90	---	823	364	---	403	---	259	---	169	115	---
TOTAL	2132	2688	9803	29029	29549	20680	25565	11589	9078	6310	7954	5279
MEAN	68.8	89.6	316	936	1055	667	852	374	303	204	257	176
MAX	264	122	1120	4830	4630	1300	2360	629	701	400	1260	585
MIN	32	77	110	353	433	403	382	237	141	132	115	89
CFSM	.18	.24	.84	2.48	2.79	1.77	2.25	.99	.80	.54	.68	.47
IN.	.21	.26	.96	2.86	2.91	2.04	2.52	1.14	.89	.62	.78	.52

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CAL YR 1981   TOTAL    85152   MEAN 233   MAX  4040   MIN 32   CFSM  .62   IN  8.38
WTR YR 1982   TOTAL   159656   MEAN 437   MAX  4830   MIN 32   CFSM 1.16   IN 15.71
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02207500 YELLOW RIVER NEAR COVINGTON, GA.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.—December 1957 to May 1958, January 1978 to September 1982 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
OCT					
20...	1330	51	14.0	4	.55
DEC					
01...	1345	408	9.0	122	134
JAN					
19...	1345	369	30.0	14	14
FEB					
24...	1630	460	13.0	21	26
APR					
08...	1445	621	12.0	27	45
MAY					
18...	1150	297	21.0	34	27
JUN					
24...	1400	330	23.0	47	42
AUG					
12...	1030	1050	23.0	166	471
SEP					
23...	1330	90	17.0	9	2.2

02208005 YELLOW RIVER NEAR STEWART, GA.

LOCATION.--Lat 33°26'26", long 83°52'43", Newton County, Hydrologic Unit 03070103, at bridge on State Highway 212, 2.5 mi (4.0 km) northwest of Stewart.
DRAINAGE AREA.--440 mi^2 (1,140 km^2), approximately.
PERIOD OF RECORD.--July 1974 to current year.
REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, Dissolved Oxygen, and Specific Conductance by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	TEMPER-ATURE, AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT										
08...	1200	35	119	117	7.3	7.0	17.5	20.5	8.4	89
NOV										
11...	1200	100	--	100	7.3	7.3	18.5	21.0	8.1	--
DEC										
09...	1145	160	--	85	7.3	7.2	6.5	7.0	10.8	89
JAN										
06...	1245	4200	43	39	6.6	6.7	6.5	16.0	11.5	94
FEB										
01...	1220	600	--	63	--	7.1	8.5	8.0	14.2	121
MAR										
08...	1500	1570	54	51	6.7	7.1	11.0	12.5	11.0	--
APR										
06...	1240	1480	--	59	--	7.0	13.0	9.0	10.8	104
MAY										
04...	1210	680	56	57	7.0	7.1	17.0	28.0	9.2	97
JUN										
07...	1115	530	56	59	--	7.0	22.0	30.0	7.9	91
JUL										
01...	1245	260	--	74	7.0	7.3	22.5	26.5	8.2	95
AUG										
12...	1100	1700	--	41	6.9	6.8	23.0	33.5	7.7	91
SEP										
07...	1100	180	--	68	7.2	7.1	18.5	33.0	7.0	97

DATE	TUR-BID-ITY (JTU)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT											
08...	4	2	.6	230	30	1	.22	.020	.10	.230	<1.0
NOV											
11...	5	7	.5	150	28	1	.36	.030	<.10	.110	3.2
DEC											
09...	9	2	.9	90	22	7	.64	.040	.10	.120	1.6
JAN											
06...	124	20	2.0	930	8.0	56	.26	.020	.40	.140	6.0
FEB											
01...	20	17	.8	220	16	19	.52	.040	.10	.110	4.0
MAR											
08...	80	9	1.9	2300	13	112	.41	.040	.60	.150	4.0
APR											
06...	40	10	1.5	2300	17	86	.40	<.020	.60	.160	10
MAY											
04...	10	7	.6	1100	12	23	.46	.020	.20	.060	1.0
JUN											
07...	25	10	.6	790	15	30	.41	<.020	.40	.080	2.0
JUL											
01...	15	--	.3	330	22	13	.49	.060	--	.060	2.0
AUG											
12...	135	--	2.3	130000	11	202	<.02	.110	--	.320	--
SEP											
07...	15	--	1.0	1300	21	12	.40	<.020	--	.060	3.0

02208450 ALCOVY RIVER ABOVE COVINGTON, GA.

LOCATION.--Lat 33°38'24", long 83°46'45", Newton County, Hydrologic Unit 03070103, at right bank on city of Covington water works intake structure, 400 ft (122 m) upstream from bridge on Alcovy Road, 600 ft (183 m) upstream from Georgia Railroad trestle, and 6 mi (10 km) northeast of Covington.
DRAINAGE AREA.--185 mi^2 (479 km^2), approximately.
PERIOD OF RECORD.--January 1972 to current year.
GAGE.--Water-stage recorder. Altitude of gage is 650 ft (198 m), from topographic map.
REMARKS.--Records good except those for periods of indefinite stage-discharge relation, Nov. 1 to Dec. 1 and Jan. 11-20, which are fair. Discharge affected by diversions by city of Covington.
AVERAGE DISCHARGE.--10 years, 262 ft^3/s (7.420 m^3/s), 19.23 in/yr (488 mm/yr).
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,530 ft^3/s (185 m^3/s) Mar. 16, 1976, gage height, 14.79 ft (4.508); minimum daily discharge, 5.5 ft^3/s (0.16 m^3/s) July 26, 1981.
EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,800 ft^3/s (51.0 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 6	0400	1930	547	10.37	3.161	Feb. 5	0800	*1940	54.9	10.30	3.139

Minimum daily discharge, 7.4 ft^3/s (0.21 m^3/s) Oct. 9.

DISCHARGE. IN CUBIC FEET PER SECOND. WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.1	43	117	566	186	416	177	344	769	115	127	66
2	7.8	42	146	681	208	378	171	290	396	100	156	133
3	7.7	41	148	584	919	330	172	255	358	91	114	164
4	9.4	42	116	893	1780	286	177	229	306	84	87	180
5	9.0	43	91	1690	1760	254	235	206	450	84	75	158
6	8.6	42	79	1660	1010	234	371	188	522	79	74	105
7	8.6	41	72	737	629	338	447	174	329	76	79	87
8	7.7	39	68	402	467	476	383	175	214	74	74	78
9	7.4	38	64	297	399	515	461	187	168	73	74	72
10	12	37	62	246	412	448	563	181	143	81	82	69
11	17	38	59	230	384	335	481	155	128	104	541	78
12	21	40	58	220	335	290	352	140	129	116	969	93
13	19	38	58	210	314	260	283	130	153	98	871	92
14	17	37	77	200	289	239	253	122	148	122	576	125
15	15	36	135	195	261	234	252	115	142	98	247	188
16	15	35	156	190	270	333	336	111	121	120	167	133
17	15	37	137	188	550	501	365	116	129	213	139	96
18	16	36	114	186	642	494	330	126	122	200	136	84
19	16	37	97	190	530	471	333	263	110	142	177	81
20	16	40	85	205	409	436	375	212	103	118	148	78
21	15	43	75	222	329	340	371	227	96	98	121	71
22	17	42	75	228	283	297	356	213	92	93	107	65
23	20	41	81	240	248	266	303	530	111	100	97	60
24	24	40	83	266	221	237	247	435	159	91	90	58
25	33	46	151	275	205	220	277	228	138	87	86	58
26	59	54	241	254	196	216	638	197	106	97	83	60
27	78	50	233	204	256	247	888	216	104	96	79	106
28	87	48	189	168	398	245	847	233	110	84	77	98
29	71	46	140	152	---	204	611	192	157	74	76	80
30	52	80	142	143	---	188	450	155	144	72	73	70
31	45	---	202	143	---	182	---	538	---	91	69	---
TOTAL	754.3	1272	3551	12065	13890	9910	11505	6883	6157	3171	5871	2886
MEAN	24.3	42.4	115	389	496	320	384	222	205	102	189	96.2
MAX	87	80	241	1690	1780	515	888	538	769	213	969	188
MIN	7.4	35	58	143	186	182	171	111	92	72	69	58
CFSM	.13	.23	.62	2.10	2.68	1.73	2.08	1.20	1.11	.55	1.02	.52
IN.	.15	.26	.71	2.43	2.79	1.99	2.31	1.38	1.24	.64	1.18	.58

CAL YR 1981 TOTAL 38379.3 MEAN 105 MAX 1630 MIN 5.5 CFSM .57 IN 7.72
WTR YR 1982 TOTAL 77915.3 MEAN 213 MAX 1780 MIN 7.4 CFSM 1.15 IN 15.67

02209260 ALCOVY RIVER ABOVE STEWART, GA.

LOCATION.--Lat 33°26'58", long 83°49'42", Newton County, Hydrologic Unit 03070103, at bridge on Newton Factory Bridge Road, 2.6 mi (4.2 km) northeast of Stewart.
DRAINAGE AREA.--250 mi^2 (650 km^2), approximately.
PERIOD OF RECORD.--July 1974 to current year.
REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Air Temperature, Water Temperature, pH, Dissolved Oxygen, and Specific Conductance by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE (DEG C)	TEMPERATURE, AIR (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT									
08...	1415	67	64	7.5	7.1	20.0	21.0	9.5	106
NOV									
11...	1230	--	68	7.5	7.3	19.0	21.5	8.5	--
DEC									
09...	1400	57	57	7.2	7.3	7.0	8.5	11.0	91
JAN									
06...	1425	35	34	6.3	6.5	6.5	16.5	10.7	88
FEB									
01...	1250	--	47	--	7.1	8.0	12.0	12.2	103
MAR									
08...	1430	45	42	6.8	7.1	12.0	13.0	10.3	--
APR									
06...	1315	44	48	6.8	6.9	14.5	9.0	10.6	105
MAY									
04...	1245	44	44	7.1	7.2	16.5	28.0	9.2	96
JUN									
07...	1330	45	43	--	6.7	22.0	28.5	8.3	96
JUL									
01...	1320	--	54	7.0	7.1	22.5	29.0	8.8	102
AUG									
12...	1300	41	36	6.8	6.6	23.0	31.0	6.8	81
SEP									
07...	1145	54	49	7.3	7.3	19.0	34.0	6.6	96

DATE	TURBIDITY (JTU)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	ALKALINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT											
08...	8	--	.6	60	21	<1	.18	.020	--	.040	2.0
NOV											
11...	8	--	.5	230	25	<1	.10	.020	--	.030	4.9
DEC											
09...	9	--	.8	90	22	3	.28	.120	--	.040	7.3
JAN											
06...	21	--	1.6	680	6.0	70	.32	<.020	--	.100	6.0
FEB											
01...	10	--	.2	20	13	4	.33	.100	--	.040	4.0
MAR											
08...	25	--	1.2	2300	13	20	.28	.080	--	.080	6.0
APR											
06...	18	--	.9	790	14	19	.35	.040	--	.060	4.0
MAY											
04...	8	--	.5	20	11	4	.32	.020	--	.040	2.0
JUN											
07...	27	--	.7	330	18	22	.24	.040	--	.080	6.0
JUL											
01...	13	12	.6	80	19	7	.33	.050	.20	.060	2.5
AUG											
12...	112	37	2.6	4900	9.0	184	1.9	.030	.70	.220	--
SEP											
07...	13	10	1.2	80	15	11	.20	<.020	.20	.030	3.5

02210500 OCMULGEE RIVER NEAR JACKSON, GA.

LOCATION.--Lat 33°18'27", long 83°50'18", Butts-Jasper County line, Hydrologic Unit 03070103, on right bank 500 ft (152 m) upstream from bridge on State Highway 16, 0.5 mi (0.8 km) upstream from Yellow Water Creek, 1 mi (1.6 km) downstream from Lloyd Shoals Dam, and 7 mi (11 km) east of Jackson.

DRAINAGE AREA.--1,420 mi^2 (3,680 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1906 to September 1915, August 1939 to September 1960, October 1975 to September 1982 (discontinued). Water years 1920, 1961-65 (annual maximum only).

GAGE.--Water-stage recorder. Datum of gage is 419.29 ft (127.800 m), National Geodetic Vertical Datum of 1929. Prior to Jan. 1, 1913, staff gage, Jan. 1 to Dec. 31, 1913, water-stage recorder, Jan. 1, 1914, to Dec. 31, 1915, staff gage, and August 1939 to September 1960, water-stage recorder, all at present site and datum.

REMARKS.--Records fair. Flow regulated by Lloyd Shoals Reservoir. (See "Lakes and Reservoirs in Altamaha River Basin," station 02210000.)

AVERAGE DISCHARGE.--37 years (1906-15, 1939-60, 1975-82), 1,721 ft^3/s (48.74 m^3/s), 16.46 in/yr (418 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 56,600 ft^3/s (1,600 m^3/s) Nov. 28, 1948, gage height, 23.9 ft (7.28 m); minimum daily, 18 ft^3/s (0.51 m^3/s) Nov. 20, 1910.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 26.8 ft (8.17 m) Dec. 11, 1919, from graph based on gage readings, discharge, 69,000 ft^3/s (1,950 m^3/s), by computation of flow over dam.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 17,900 ft^3/s (507 m^3/s) Feb. 4, gage height, 11.77 ft (3.587 m); minimum daily, 336 ft^3/s (9.52 m^3/s) Oct. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	373	341	364	6620	1370	2120	2160	2620	1860	1300	868	460
2	382	340	362	7700	1490	1850	1820	2220	1570	744	672	478
3	382	340	362	5950	5370	1990	1710	1570	1950	570	1200	1300
4	370	342	363	6450	15800	1900	697	2080	1950	553	1080	1190
5	366	344	356	13400	14400	1840	1690	2530	1940	562	570	716
6	364	350	347	11200	8990	1750	3260	1260	1930	567	1010	452
7	357	351	354	6870	6360	2400	2200	1110	1450	811	600	436
8	369	352	352	4160	4030	2470	2180	1670	1300	581	610	469
9	364	352	352	3910	2980	2470	2180	1330	1100	575	610	820
10	373	348	352	3670	2550	2470	2520	1260	1060	587	620	988
11	375	346	352	3440	2590	1670	2620	1270	670	1060	1670	964
12	361	340	352	3170	2530	1390	2150	963	692	1210	3480	496
13	363	344	352	2930	2450	2030	2010	1150	933	983	2900	727
14	361	340	440	2210	2360	2030	1990	1180	1270	912	1560	727
15	360	350	627	1300	2450	2020	1990	930	1010	1190	1500	694
16	360	350	857	520	2880	2330	1730	804	705	1910	1330	469
17	361	346	888	517	3410	3960	1970	1280	1030	1590	1350	487
18	361	350	920	510	4350	2670	1970	805	902	1610	1100	452
19	360	356	916	499	3080	2290	2130	1440	694	1430	610	478
20	353	352	902	498	3000	2290	3640	1480	694	1600	928	478
21	352	355	893	1470	2880	2310	4000	1740	997	1080	880	478
22	352	357	611	1850	2740	2220	2400	1320	709	573	570	452
23	360	355	474	2050	2660	2030	2140	1470	633	1120	452	452
24	388	359	481	1880	1670	2030	1990	1630	574	1050	560	460
25	382	354	1880	1860	547	2030	2160	1360	588	594	469	460
26	385	352	4160	528	1550	653	6050	1430	602	940	452	460
27	364	353	3830	888	2340	1430	10000	1400	1060	832	444	460
28	356	355	2180	1040	2340	1680	5020	1550	1180	772	436	460
29	342	352	2170	1160	---	1640	3320	693	1550	686	444	460
30	336	353	2150	1100	---	1620	3600	1140	1620	570	469	452
31	338	---	2570	1040	---	1650	---	1720	---	868	487	---
TOTAL	11270	10479	31569	100390	109167	63233	83297	44405	34223	29430	29931	17875
MEAN	364	349	1018	3238	3899	2040	2777	1432	1141	949	966	596
MAX	388	359	4160	13400	15800	3960	10000	2620	1950	1910	3480	1300
MIN	336	340	347	498	547	653	697	693	574	553	436	436
MEAN†	338	443	1301	3056	3816	2167	2878	1416	1124	949	930	557
CFSM†	.24	.31	.92	2.15	2.67	1.53	2.03	1.00	.79	.67	.65	.39
IN†	.27	.35	1.06	2.48	2.80	1.76	2.26	1.15	.88	.77	.75	.44

CAL YR 1981 TOTAL 335060 MEAN 918 MAX 16000 MIN 336 MEAN† 947 CFSM† 0.67 IN† 9.05
WTR YR 1982 TOTAL 565269 MEAN 1549 MAX 15800 MIN 336 MEAN† 1567 CFSM† 1.10 IN† 14.98

† ADJUSTED FOR CHANGE IN CONTENTS IN LLOYD SHOALS RESERVOIR.

02210500 OCMULGEE RIVER NEAR JACKSON, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, Dissolved Oxygen, and Specific Conductance by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	TEMPER-ATURE, AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT										
08...	1300	338	--	111	7.4	7.1	23.0	24.5	5.8	68
NOV										
11...	1300	346	--	116	7.2	--	19.5	22.0	5.0	--
DEC										
09...	1245	352	--	117	7.1	7.2	10.5	9.5	6.6	59
JAN										
06...	1345	10800	53	53	6.7	6.9	7.5	16.0	11.4	95
FEB										
01...	1330	1360	--	82	--	6.9	6.5	10.0	10.2	83
MAR										
08...	1330	2470	64	60	6.9	6.9	11.5	15.5	9.6	--
APR										
06...	1400	3890	--	69	7.2	7.1	16.0	9.0	8.8	89
MAY										
04...	1330	2590	55	55	6.6	6.9	17.0	28.0	6.4	67
JUN										
07...	1215	1940	72	69	--	6.7	23.5	29.5	3.5	41
JUL										
01...	1355	1580	--	79	7.1	7.0	24.0	31.0	6.3	75
AUG										
12...	1145	3520	--	80	7.1	7.0	26.5	32.0	4.4	55
SEP										
07...	1300	404	78	76	--	7.4	26.0	34.0	3.7	54

DATE	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C. SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT									
08...	3	2.8	<30	28	5	.22	.140	.080	4.0
NOV									
11...	4	2.9	<30	27	15	.53	.090	.070	6.8
DEC									
09...	5	1.8	<30	27	4	.86	.180	.120	2.2
JAN									
06...	112	2.5	2300	10	56	.40	.140	.280	4.0
FEB									
01...	17	.4	<20	15	2	.62	.400	.160	4.0
MAR									
08...	13	1.8	80	14	9	.62	.070	.090	3.0
APR									
06...	5	1.4	<20	17	7	.43	.050	.080	2.0
MAY									
04...	17	.8	20	15	3	.38	.140	.090	4.0
JUN									
07...	8	1.2	<20	19	4	.48	.190	.100	3.0
JUL									
01...	6	1.1	20	22	6	.36	.200	.120	4.0
AUG									
12...	6	2.4	<20	25	--	.39	.270	.080	--
SEP									
07...	6	2.0	60	22	4	.28	.120	.080	7.5

02212500 OCMULGEE RIVER AT JULIETTE, GA.

LOCATION.--Lat 33°05'50", long 83°47'10", Monroe-Jones County line, Hydrologic Unit 03070103, on left bank 0.9 mi (1.4 km) downstream from Juliette Mills at Juliette, and 2.5 mi (4.0 km) downstream from Towaliga River.
DRAINAGE AREA.--1,960 mi^2 (5,080 km^2).
PERIOD OF RECORD.--June 1916 to September 1921, July 1974 to current year.
REVISED RECORDS.--WSP 1304: Drainage area. WRD GA-80-1: 1920(M), 1975(M).
GAGE.--Water-stage recorder. Datum of gage is 340.97 ft (103.928 m) National Geodetic Vertical Datum of 1929.
REMARKS.--Records good except those of no gage-height record, Dec. 21 to Jan. 24, Mar. 9 to Apr. 18, which are fair. Flow regulated by Lloyd Shoals Reservoir. (See "Lakes and Reservoirs in Altamaha River Basin," station 02210000.)
AVERAGE DISCHARGE.--13 years (1916-21, 1974-82), 2,585 ft^3/s (73.21 m^3/s), 17.91 in/yr (455 mm/yr), unadjusted.
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 67,400 ft^3/s (1,910 m^3/s), Dec. 11, 1919, gage height, 30.8 ft (9.39 m); minimum daily discharge, 363 ft^3/s (10.3 m^3/s) Oct. 7, 1981.
EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, about 32 ft (9.75 m) in May 1886, from floodmarks, discharge, 73,000 ft^3/s (2,070 m^3/s), revised.
EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 13,000 ft^3/s (368 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 5	unknown	16000	453	14.48	4.414	Apr. 27	0830	14900	422	13.93	4.246
Feb. 4	2130	*21900	620	17.42	5.310						

Minimum daily discharge, 363 ft^3/s (10.3 m^3/s) Oct. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	366	424	486	8500	1970	2750	2200	3260	2250	1720	1070	621
2	377	451	735	10000	2150	2380	2300	2920	1770	861	1320	693
3	377	407	690	8500	11500	2460	2200	1950	2130	854	1160	1180
4	386	434	585	12000	20200	2350	1200	2080	2120	675	1240	1540
5	374	409	525	15000	19300	2240	1700	2810	2120	680	1020	939
6	372	442	492	13000	12100	2160	3100	1770	2110	669	1260	771
7	363	407	468	10000	8240	3260	3500	1430	1800	718	968	614
8	372	460	468	7000	5660	3400	2800	1830	1460	910	843	601
9	380	454	463	5000	4110	3600	2600	1800	1340	732	969	665
10	421	448	463	4500	3440	3500	2600	1530	1240	810	858	1140
11	449	411	463	4000	3360	2500	3100	1470	943	998	1170	1500
12	430	430	460	3700	3260	1800	2900	1260	834	1670	3430	1030
13	418	448	460	3500	3230	2300	2400	1300	1030	957	3590	769
14	407	406	580	3400	3050	2500	2300	1230	1300	1220	2000	948
15	407	426	1100	2900	2940	2700	2300	1230	1290	1000	1840	996
16	393	449	1360	1700	3390	3000	2200	999	1050	2070	1650	768
17	392	406	1210	1300	6320	4500	2200	1210	1040	1860	1610	652
18	392	416	1190	1100	6260	3500	2300	1070	1090	1770	1490	641
19	383	406	1140	1000	4550	3000	2220	1300	953	1440	984	642
20	380	423	1100	1000	3950	2900	4830	1840	836	1880	1170	634
21	379	448	1050	1900	3710	2800	6370	1700	918	1170	1210	614
22	379	417	850	2400	3440	2700	4030	1850	1030	1080	914	608
23	393	433	750	2700	3270	2600	2750	1650	834	998	720	595
24	405	446	800	2800	2880	2400	2440	1860	730	1170	698	589
25	494	446	1700	2500	1080	2300	2550	1690	701	1210	767	589
26	559	447	5200	1580	1380	1100	6930	1610	699	826	655	535
27	544	444	4700	1050	2880	1600	13700	1750	854	1020	640	576
28	541	445	3300	1440	3000	1800	9010	1720	1340	1020	627	583
29	502	448	3100	1590	---	2000	3880	1330	1720	909	615	570
30	442	449	2900	1550	---	2100	4640	1200	1720	1270	613	570
31	391	---	4400	1480	---	2000	---	1790	---	862	635	---
TOTAL	12868	12980	43188	138090	150620	80200	107250	52439	39252	35029	37736	23173
MEAN	415	433	1393	4455	5379	2587	3575	1692	1308	1130	1217	772
MAX	559	460	5200	15000	20200	4500	13700	3260	2250	2070	3590	1540
MIN	363	406	460	1000	1080	1100	1200	999	699	669	613	535

CAL YR 1981	TOTAL	438718	MEAN	1202	MAX	20100	MIN	363	MEAN†	1231	CFSM†	0.63	IN†	8.53
WTR YR 1982	TOTAL	732825	MEAN	2008	MAX	20200	MIN	363	MEAN†	2026	CFSM†	1.03	IN†	14.03

† ADJUSTED FOR CHANGE IN CONTENTS IN LLOYD SHOALS RESERVOIR.

02212600 FALLING CREEK NEAR JULIETTE, GA.
(Hydrologic bench-mark station)

LOCATION.--Lat 33°05'59", long 83°43'25", Jones County, Hydrologic Unit 03070103, on left bank 100 ft (30 m) upstream from highway bridge, 4 mi (6.4 km) upstream from Caney Creek, and 5.1 mi (8.2 km) east of Juliette.
DRAINAGE AREA.--72.2 mi^2 (187 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1964 to current year.
GAGE.--Water-stage recorder. Altitude of gage is 370 ft (113 m), from topographic map.
REMARKS.--Records good.
AVERAGE DISCHARGE.--18 years, 65.7 ft^3/s (1.861 m^3/s), 12.36 in/yr (314 mm/yr).
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,700 ft^3/s (218 m^3/s) Mar. 2, 1971, gage height, 23.0 ft (7.010 m), from floodmark; minimum, 0.08 ft^3/s (0.002 m^3/s) Oct. 5-7, 1981.
EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,100 ft^3/s (31.2 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 1	0115	1500	42.5	12.43	3.789	Feb. 3	2130	*2680	75.9	15.67	4.776

Minimum discharge, 0.08 ft^3/s (0.002 m^3/s) Oct. 5-7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.13	3.4	12	866	67	35	17	46	79	8.3	7.9	2.6
2	.10	3.6	29	184	65	32	16	38	36	7.7	9.4	3.8
3	.12	3.7	16	137	1480	29	20	33	24	6.3	7.3	4.5
4	.10	3.9	9.4	520	1050	27	21	29	20	5.4	5.8	4.4
5	.09	4.2	6.6	245	230	26	36	26	18	5.2	5.2	3.8
6	.08	7.4	5.9	99	142	25	73	23	17	4.8	5.2	3.3
7	.10	7.9	5.7	67	89	107	44	21	14	5.0	5.7	2.8
8	.27	5.6	5.7	74	65	137	36	26	12	6.5	8.1	2.6
9	.25	4.7	5.6	59	53	66	43	28	9.5	5.7	14	2.3
10	1.4	4.7	5.4	44	51	48	36	22	8.6	11	13	3.2
11	2.4	5.3	5.4	35	44	39	31	18	7.7	25	9.9	16
12	1.5	5.6	5.5	31	40	35	27	16	7.7	20	24	21
13	1.1	5.3	5.8	40	54	31	25	14	13	14	14	13
14	1.7	5.5	50	67	48	29	25	13	15	15	10	8.6
15	1.8	5.2	235	79	40	27	28	12	11	28	8.7	6.4
16	1.9	5.3	131	112	46	111	34	12	9.5	18	6.5	5.1
17	1.9	6.0	56	148	341	89	30	12	8.6	18	6.2	4.2
18	1.8	7.2	37	103	178	60	31	12	8.0	20	17	3.7
19	1.8	6.0	27	83	94	44	27	12	7.7	24	32	3.3
20	1.8	5.8	20	76	67	36	604	12	6.8	14	17	3.0
21	1.9	5.8	19	61	53	30	306	11	6.1	10	11	3.0
22	2.0	6.2	16	50	43	27	115	9.8	8.0	8.5	7.9	3.1
23	2.2	5.7	16	48	37	24	66	9.8	14	7.9	6.5	2.9
24	2.6	5.6	17	68	34	22	46	140	11	7.8	5.7	2.4
25	8.3	6.2	700	64	31	26	96	44	8.0	6.6	5.0	2.3
26	22	6.3	381	48	30	24	366	140	6.8	5.8	4.4	2.3
27	16	6.0	135	40	36	20	444	68	11	5.2	3.9	2.5
28	8.6	9.1	83	36	41	17	203	31	21	5.8	3.5	2.6
29	5.0	6.7	77	34	---	16	98	20	15	5.3	3.1	2.6
30	3.5	6.0	56	33	---	17	62	16	11	5.2	2.8	2.3
31	3.3	---	693	38	---	17	---	303	---	6.0	2.6	---
TOTAL	95.74	169.9	2867.0	3589	4549	1273	3006	1217.6	445.0	336.0	283.3	143.6
MEAN	3.09	5.66	92.5	116	162	41.1	100	39.3	14.8	10.8	9.14	4.79
MAX	22	9.1	700	866	1480	137	604	303	79	28	32	21
MIN	.08	3.4	5.4	31	30	16	16	9.8	6.1	4.8	2.6	2.3
CFSM	.04	.08	1.28	1.61	2.24	.57	1.39	.54	.21	.15	.13	.07
IN.	.05	.09	1.48	1.85	2.34	.66	1.55	.63	.23	.17	.15	.07

CAL YR 1981 TOTAL 14782.44 MEAN 40.5 MAX 3950 MIN .08 CFSM .56 IN 7.62
WTR YR 1982 TOTAL 17975.14 MEAN 49.2 MAX 1480 MIN .08 CFSM .68 IN 9.26

02212600 FALLING CREEK NEAR JULIETTE, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1967 to current year.
PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: August 1965 to September 1979.
EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 31.5°C Aug. 3, 1970; minimum, 0.0°C Jan. 9, 10, 1970, Dec. 26, 1976.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT 26...	0930	25	150	152	7.6	7.7	12.5	9.2
NOV 20...	1030	5.7	150	150	7.7	7.8	12.0	9.0
DEC 08...	0830	5.7	130	138	7.6	7.8	7.0	10.1
JAN 19...	0900	83	72	74	7.0	7.3	5.0	11.8
FEB 16...	0800	39	80	77	7.2	7.4	11.5	9.6
MAR 16...	0800	113	88	84	7.4	7.6	16.0	8.8
APR 20...	0800	831	44	40	6.8	6.6	14.0	9.3
MAY 12...	0900	16	115	110	7.5	7.6	16.0	9.0
JUN 08...	0900	11	140	131	7.6	7.6	19.5	7.0
JUL 27...	0700	5.4	150	149	7.6	7.7	24.0	6.9
AUG 17...	0700	6.1	155	149	7.0	7.4	23.0	7.1
SEP 07...	1030	3.0	155	165	7.8	8.1	19.0	8.2

DATE	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)
OCT 26...	930	4900	46	.00	9.7	5.4	15	40	1.0	2.5	55
NOV 20...	140	150	43	.00	8.8	5.1	16	43	1.1	2.2	52
DEC 08...	250	260	39	.00	8.2	4.6	12	38	.9	2.1	42
JAN 19...	78	160	22	.00	4.8	2.5	6.5	38	.6	.9	24
FEB 16...	180	260	29	3.0	6.0	3.3	6.1	31	.5	.9	26
MAR 16...	2300	1700	30	.00	6.6	3.3	5.5	28	.4	1.0	34
APR 20...	3400	K16000	17	2.0	3.7	1.8	2.3	22	.3	.9	15
MAY 12...	36	620	46	.00	9.9	5.2	8.6	28	.6	1.0	54
JUN 08...	280	250	50	.00	11	5.4	6.6	22	.4	1.2	62
JUL 27...	140	510	56	.00	13	5.8	8.6	24	.5	1.1	73
AUG 17...	200	770	58	.00	13	6.1	11	29	.6	1.1	73
SEP 07...	350	140	54	.00	12	5.8	11	30	.7	1.5	7[illegible]

02212600 FALLING CREEK NEAR JULIETTE, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)
OCT												
26...	8.2	5.7	1.2	19	115	100	7.8	.03	<.01	.090	.020	.54
NOV												
20...	12	5.9	1.3	21	117	104	1.8	<.01	.01	<.010	<.010	--
DEC												
08...	13	5.8	1.1	17	105	89	1.6	<.01	<.01	.030	.010	.27
JAN												
19...	10	3.8	.3	15	82	58	18.4	.06	.05	.030	.020	.27
FEB												
16...	6.9	3.0	.3	16	67	58	7.1	.46	.44	.190	.150	.56
MAR												
16...	7.3	2.8	.4	15	74	62	22.6	.07	.02	.020	<.010	.57
APR												
20...	6.0	1.5	.1	9.1	56	35	126	.13	<.10	.160	.240	.65
MAY												
12...	4.0	2.8	.5	20	68	84	2.9	<.10	<.10	.080	.060	.37
JUN												
08...	2.0	2.7	.6	20	92	87	2.7	<.10	<.10	.120	.090	.08
JUL												
27...	<1.0	3.5	.7	22	110	--	1.6	<.10	<.10	.050	.040	.15
AUG												
17...	2.0	4.1	1.0	21	98	103	1.6	<.10	<.10	<.010	.010	--
SEP												
07...	2.0	4.2	1.2	21	97	103	.79	<.10	<.10	<.010	<.010	--

DATE	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	NITRO-GEN DIS-SOLVED (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT												
26...	.21	.63	.23	--	.66	.060	.020	6.1	--	39	2.6	83
NOV												
20...	--	<.10	<.10	--	--	.020	.020	--	1.6	2	.03	--
DEC												
08...	.20	.30	.21	--	--	<.010	.010	2.8	--	3	.05	100
JAN												
19...	.19	.30	.21	.26	.36	.040	.020	4.7	--	16	3.6	84
FEB												
16...	.37	.75	.52	.96	1.2	.040	.020	2.7	--	12	1.3	91
MAR												
16...	--	.59	--	1.9	.66	.070	.010	5.5	--	72	22	89
APR												
20...	.30	.81	.54	--	.94	.250	.020	--	17	522	1170	70
MAY												
12...	--	.45	<.10	--	--	.020	.020	3.0	--	9	.39	--
JUN												
08...	.41	.20	.50	--	--	.010	<.010	3.4	--	7	.21	100
JUL												
27...	.26	.20	.30	--	--	.030	.010	2.8	--	5	.07	88
AUG												
17...	.39	.60	.40	--	--	.020	.020	--	--	4	.07	84
SEP												
07...	--	.40	.70	--	--	.010	.010	2.9	--	3	.02	74

02212600 FALLING CREEK NEAR JULIETTE, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)
NOV											
20...	1	1	<100	24	<1	<1	5	20	5	6	5
APR											
20...	1	1	200	31	<1	1	1	20	<1	4	26

DATE	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)
NOV										
20...	<10	780	250	3	<0	<4	300	100	<.1	<.1
APR										
20...	<10	17000	730	13	<10	<4	1500	230	<.1	<.1

DATE	MOLYBDENUM, DISSOLVED (UG/L AS MO)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, TOTAL RECOVERABLE (UG/L AS AG)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)	CYANIDE TOTAL (MG/L AS CN)
NOV										
20...	<10	<1	<1	<1	<1	74	6.0	30	6	<.01
APR										
20...	<10	<1	<1	<1	<1	28	<6.0	20	7	<.01

DATE	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DISSOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DISSOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DISSOLVED, RADON METHOD (PCI/L)	URANIUM DISSOLVED, EXTRACTION (UG/L)
JUN								
08...	<1.7	<.5	1.8	<.6	1.7	<.6	.10	.14

02212600 FALLING CREEK NEAR JULIETTE, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	PCB, TOTAL (UG/L)	NAPHTHALENES, POLYCHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLORDANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)	DIAZINON, TOTAL (UG/L)	DIELDRIN TOTAL (UG/L)	ENDOSULFAN, TOTAL (UG/L)
MAY										
12...	<.10	<.10	<.01	<.10	<.01	<.01	<.01	<.01	<.01	<.01

DATE	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTACHLOR, TOTAL (UG/L)	HEPTACHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALATHION, TOTAL (UG/L)	METHOXYCHLOR, TOTAL (UG/L)	METHYL PARATHION, TOTAL (UG/L)	METHYL TRITHION, TOTAL (UG/L)
MAY									
12...	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01

DATE	MIREX, TOTAL (UG/L)	PARATHION, TOTAL (UG/L)	PERTHANE TOTAL (UG/L)	TOXAPHENE, TOTAL (UG/L)	TOTAL TRITHION (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
MAY									
12...	<.01	<.01	<.10	<1	<.01	<.01	<.01	<.01	<.01

DATE	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG)	PCN, TOTAL IN BOTTOM MATERIAL (UG/KG)	ALDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	CHLORDANE, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDD, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDE, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDT, TOTAL IN BOTTOM MATERIAL (UG/KG)	DIELDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	ENDOSULFAN, TOTAL IN BOTTOM MATERIAL (UG/KG)
MAY									
12...	<1	<1.0	<.1	<1.0	<.1	<.1	<.1	<.1	<.1

DATE	ENDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR, TOTAL IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL IN BOTTOM MATERIAL (UG/KG)	METHOXYCHLOR, TOT. IN BOTTOM MATL. (UG/KG)	MIREX, TOTAL IN BOTTOM MATERIAL (UG/KG)	PERTHANE IN BOTTOM MATERIL (UG/KG)	TOXAPHENE, TOTAL IN BOTTOM MATERIAL (UG/KG)
MAY								
12...	<.1	<.1	<.1	<.1	<.1	<.1	<1.00	<10

02212950 OCMULGEE RIVER ABOVE MACON, GA.

LOCATION.--Lat 32°52'11", long 83°39'15", Bibb County, Hydrologic Unit 03070103, at Macon water works intake, 1.2 mi (1.9 km) north of Macon city limits, and at mile 201 (323 km).
DRAINAGE AREA.--2,240 mi^2 (5,800 km^2), approximately.
PERIOD OF RECORD.--July 1974 to current year.
REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, Dissolved Oxygen, and Specific Conductance by U.S. Geological Survey. Discharge obtained from gaging station 02213000, Ocmulgee River at Macon, Ga. Flow regulated by Lloyd Shoals Reservoir. (See "Lakes and Reservoirs in Altamaha River Basin," station 02210000.)

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	TEMPER-ATURE, AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT 20...	1145	340	116	115	--	7.6	18.0	18.5	8.5	89
NOV 30...	1340	440	--	139	7.4	7.3	13.0	9.0	9.9	95
DEC 16...	1245	1470	105	104	7.3	7.4	8.0	6.5	11.0	93
JAN 05...	1100	10300	--	84	--	7.1	6.0	10.0	11.8	95
MAR 17...	1120	3620	59	61	6.7	7.0	14.0	21.0	9.5	93
APR 21...	1335	7840	58	58	6.5	6.9	17.5	--	9.0	--
MAY 13...	1250	1440	--	76	--	7.3	23.0	29.0	8.0	94
JUN 09...	1340	1870	--	67	--	7.3	28.0	34.0	7.1	92
JUL 14...	1050	1440	82	80	--	7.2	26.0	26.0	7.0	87
AUG 18...	1200	1440	--	73	7.0	7.4	25.5	25.0	7.3	90
SEP 15...	0950	810	80	77	6.9	7.3	26.5	25.0	7.2	90

DATE	TUR-BID-ITY (JTU)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, CON-FIRMED (MPN)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 20...	3	7	.5	930	40	32	6	.24	.060	.30	.030	12
NOV 30...	3	9	.5	--	<30	31	3	.32	.040	.20	.040	3.6
DEC 16...	34	40	1.4	23000	430	27	51	.50	.020	.60	.110	11
JAN 05...	60	16	1.8	15000	2300	13	54	.44	.120	.60	.180	4.0
MAR 17...	25	19	.8	49000	23000	17	22	.45	.050	1.10	.090	2.0
APR 21...	40	9	1.2	23000	3300	16	43	.33	.040	.50	.140	5.0
MAY 13...	6	14	.2	170000	130000	12	9	.41	.020	<.10	.060	4.0
JUN 09...	7	11	.6	2300	40	18	5	.53	.020	<.10	.080	2.5
JUL 14...	6	--	.6	50	<20	21	10	.64	.090	--	.070	<1.0
AUG 18...	19	--	.3	790	130	18	2	.73	.060	--	.140	2.0
SEP 15...	8	--	.2	3300	130	21	2	.42	.240	--	.070	4.0

02213000 OCMULGEE RIVER AT MACON, GA.

LOCATION.--Lat 32°50'19", long 83°37'14", Bibb County, Hydrologic Unit 03070103, at downstream end of right pier of Fifth Street Bridge in Macon, 1.5 mi (2.4 km) upstream from Walnut Creek, and at mile 198.0 (318.6 km).

DRAINAGE AREA.--2,240 mi² (5,800 km²), approximately.

PERIOD OF RECORD.--January 1893 to December 1911, January 1912 to December 1913 (gage heights and discharge measurements only), October 1928 to current year. Monthly discharge only for some periods, published in WSP 1304. Gage height records collected at same site since 1895 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 822: Drainage area. WSP 1504: 1893-1903, 1905-10, 1932, 1937, 1942(M).

GAGE.--Water-stage recorder. Datum of gage is 269.80 ft (82.235 m) National Geodetic Vertical Datum of 1929. Prior to Oct. 9, 1905, nonrecording gage at sites within 1.5 mi (2.4 km) downstream at about same datum. Oct. 9, 1905, to Dec. 31, 1913, nonrecording gage at present site and datum. Jan. 10, 1929, to June 25, 1934, water-stage recorder at site 500 ft (152 m) downstream at same datum. June 25, 1934, to June 25, 1973, water-stage recorder at present site and datum, and June 26, 1973, to Oct. 13, 1974, nonrecording gage at present site and datum.

REMARKS.--Records good. Flow regulated by Lloyd Shoals Reservoir. (See "Lakes and Reservoirs in Altamaha River Basin", station 02210000.) Records of chemical analyses for the water years 1968-73 are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--72 years (1893-1911, 1928-82), 2,716 ft³/s (76.92 m³/s), 16.47 in/yr (418 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 83,500 ft³/s (2,360 m³/s) Nov. 29, 1948, gage height, 28.0 ft (8.53 m); maximum gage height, 29.45 ft (8.976 m), from floodmark, Mar. 4, 1971; minimum daily discharge, 128 ft³/s (3.62 m³/s) Oct. 24, 1954; minimum gage height observed, -1.0 ft (-0.30 m) Oct. 5, 1904.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 19, 1925, reached a stage of 26.0 ft (7.92 m), from floodmarks at Central of Georgia Railroad bridge, 500 ft (152 m) downstream, discharge 72,500 ft³/s (2,050 m³/s).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 14,000 ft³/s (396 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Jan. 6	1000	15900	450	19.03	5.800
Feb. 5	0200	*24300	688	21.25	6.477
Apr. 27	1700	15800	447	19.00	5.791

Minimum daily discharge, 280 ft³/s (7.93 m³/s) Nov. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	328	280	500	10100	1950	3020	2110	4360	2630	1840	1770	639
2	324	400	595	10300	2300	2660	2210	3550	2190	1410	1470	690
3	324	412	744	8670	13100	2560	2080	2550	2330	952	1050	832
4	332	316	613	9010	22400	2440	1990	2290	2440	783	1380	1480
5	336	388	530	11800	23100	2320	1260	3000	2390	738	1230	1160
6	328	324	482	15100	14300	2390	3020	2700	2350	743	965	795
7	324	408	453	11100	9630	3250	3680	1740	2160	723	1390	610
8	332	360	437	6180	7060	3890	2740	1700	1740	959	935	590
9	348	432	431	5230	5100	3560	2630	2280	1640	886	1030	579
10	436	432	419	4710	4240	3310	2580	1840	1420	865	946	874
11	416	416	421	4330	3830	3150	3150	1620	1350	1090	880	1210
12	412	332	428	4070	3740	1990	2620	1740	986	1490	2700	1570
13	376	388	437	3940	3710	2120	2340	1220	1040	1370	3810	831
14	372	416	576	3950	3550	2520	2220	1320	1290	1190	2680	927
15	360	324	1110	3110	3380	2480	2210	1350	1570	1270	1920	920
16	364	396	1420	2200	3860	2730	2270	1130	1300	1620	1760	893
17	360	420	1140	1600	7520	3810	2060	1020	1010	2100	1630	659
18	360	364	1010	1490	7110	4410	2310	1440	1280	1900	1690	645
19	344	412	1020	1310	5850	3140	2320	1000	1160	1710	1360	629
20	336	384	996	1250	4610	2900	6320	1700	952	1740	1000	629
21	336	408	945	1200	4160	2840	7830	1830	918	1690	1230	612
22	340	432	942	2380	3860	2780	5400	1970	1220	1280	1120	590
23	344	392	743	2570	3540	2570	3610	1660	993	899	838	573
24	364	452	706	2910	3360	2410	3000	2090	883	1380	685	568
25	568	432	3830	2790	1800	2420	3120	2200	791	1290	763	569
26	590	436	5790	2370	1140	2190	8890	2460	780	901	691	583
27	581	444	5570	1190	2650	1090	14200	2170	860	1200	662	532
28	518	444	4320	1390	3120	1730	11300	1950	1280	1100	643	567
29	532	440	3220	1690	---	1950	5160	1930	1580	1010	621	570
30	440	448	2860	1700	---	1860	5200	1100	1790	1260	614	559
31	412	---	6770	1680	---	1950	---	1860	---	1020	614	---
TOTAL	12137	11932	49458	141320	173970	82440	119830	60770	44323	38409	40097	22885
MEAN	392	398	1595	4559	6213	2659	3994	1960	1477	1239	1293	763
MAX	590	452	6770	15100	23100	4410	14200	4360	2630	2100	3810	1570
MIN	324	280	419	1190	1140	1090	1260	1000	780	723	614	532

CAL YR 1981 TOTAL 446829 MEAN 1224 MAX 26900 MIN 280 MEAN† 1253 CFSM† 0.56 IN† 7.59
WTR YR 1982 TOTAL 797571 MEAN 2185 MAX 23100 MIN 280 MEAN† 2203 CFSM† 0.98 IN† 13.35

† ADJUSTED FOR CHANGE IN CONTENTS IN LLOYD SHOALS RESERVOIR.

02213050 WALNUT CREEK NEAR GRAY, GA.

LOCATION.--Lat 32°58'20", long 83°37'08", Jones County, Hydrologic Unit 03070103, on downstream side of right bank pier of abandoned bridge, 500 ft (152 m) downstream from bridge on State Highway 18, 1.4 mi (2.3 km) upstream from Bonner Creek, and 5.5 mi (8.8 km) southwest of Gray.

DRAINAGE AREA.--29 mi^2 (75 km^2), approximately.

PERIOD OF RECORD.--October 1961 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 390 ft (119 m), from topographic map.

REMARKS.--Records good except those for period of no gage-height record, Mar. 29 to Apr. 18, May 2-24, and May 28 to June 9, which are poor.

AVERAGE DISCHARGE.--21 years, 33.4 ft^3/s (0.946 m^3/s), 15.64 in/yr (397 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,500 ft^3/s (439 m^3/s) Dec. 26, 1964, gage height, 23.8 ft (7.25 m), from floodmark, from rating curve extended above 5,000 ft^3/s (142 m^3/s) on basis of contracted-opening measurement of peak flow; minimum daily discharge, no flow Oct. 3-5, 1981.

EXTREMES OUTSIDE PERIOD OF RECORD.--Zero flow was observed during June, July, and August 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,000 ft^3/s (28.3 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Dec. 31	1600	1250	35.4	4.60	1.402
Feb. 3	1500	*2050	58.1	6.82	2.079
Apr. 20	0845	1300	36.8	4.70	1.433
Apr. 26	0700	1380	39.1	4.85	1.478
May 25	2330	1390	39.4	4.88	1.487

Minimum daily discharge, no flow Oct. 3-5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.07	1.9	5.3	145	29	16	9.5	37	25	4.4	7.5	2.0
2	.03	2.0	7.5	54	37	16	9.5	31	17	3.8	8.0	2.3
3	.00	2.1	3.6	50	875	15	11	26	14	3.6	5.2	2.3
4	.00	2.0	2.5	272	199	15	13	22	13	3.3	4.2	2.0
5	.00	2.0	2.3	76	78	14	20	19	12	4.7	3.8	1.7
6	.02	2.0	2.1	47	52	14	30	17	11	3.6	3.9	1.5
7	.02	1.9	2.1	39	39	52	20	15	9.5	3.4	5.1	1.4
8	.05	1.8	2.1	35	31	43	16	20	8.0	3.2	7.7	1.3
9	.23	1.9	2.0	29	28	28	18	16	6.7	6.1	10	1.4
10	2.3	2.4	2.1	23	25	24	16	13	6.1	8.6	7.5	4.8
11	2.4	2.5	2.0	22	21	21	14	11	5.6	7.6	6.4	32
12	1.2	2.4	2.1	23	19	19	12	10	6.8	8.1	5.8	12
13	.82	2.4	2.1	23	24	18	11	9.0	8.3	5.3	5.0	5.0
14	.64	2.3	15	38	19	17	11	8.5	6.3	5.2	5.0	3.6
15	.66	2.3	40	35	18	17	12	8.4	5.6	6.7	4.7	2.7
16	.67	2.4	19	46	21	16	15	8.2	5.2	5.6	3.7	2.2
17	.68	2.4	11	46	294	15	14	8.1	6.2	6.0	6.3	2.2
18	.69	2.3	9.8	35	78	15	14	8.0	5.7	12	8.6	2.1
19	.72	2.4	8.5	31	52	14	14	7.8	5.1	19	7.0	1.7
20	.73	2.5	8.6	29	38	14	426	7.6	4.6	6.1	4.9	1.4
21	.79	2.5	8.5	25	32	13	94	7.3	4.4	4.9	4.2	1.3
22	.87	2.4	8.0	23	26	13	49	7.0	5.4	5.2	3.5	1.4
23	1.4	2.4	7.5	23	22	12	34	10	7.2	4.4	3.5	1.3
24	2.7	3.5	12	26	20	12	28	12	4.8	4.1	3.1	1.2
25	7.9	3.9	275	20	18	12	198	120	4.2	3.8	2.8	1.1
26	9.8	3.3	60	18	17	11	538	241	4.0	3.4	2.3	1.0
27	3.8	3.1	43	17	18	11	247	46	5.3	7.9	2.2	1.1
28	2.2	3.8	35	16	19	10	77	30	11	7.5	2.7	1.0
29	1.9	3.7	57	16	---	10	49	20	6.4	4.9	2.2	1.0
30	1.9	3.7	28	15	---	9.6	41	16	5.4	4.7	2.0	1.0
31	1.9	---	577	17	---	9.6	---	56	---	5.5	2.0	---
TOTAL	47.09	76.2	1260.7	1314	2149	526.2	2061.0	867.9	239.8	182.6	150.8	97.0
MEAN	1.52	2.54	40.7	42.4	76.8	17.0	68.7	28.0	7.99	5.89	4.86	3.23
MAX	9.8	3.9	577	272	875	52	538	241	25	19	10	32
MIN	.00	1.8	2.0	15	17	9.6	9.5	7.0	4.0	3.2	2.0	1.0
CFSM	.05	.09	1.40	1.46	2.65	.59	2.37	.97	.28	.20	.17	.11
IN.	.06	.10	1.62	1.69	2.76	.67	2.64	1.11	.31	.23	.19	.12

CAL YR 1981 TOTAL 7443.98 MEAN 20.4 MAX 1850 MIN .00 CFSM .70 IN 9.55

WTR YR 1982 TOTAL 8972.29 MEAN 24.6 MAX 875 MIN .00 CFSM .85 IN 11.51

02213500 TOBESOFKEE CREEK NEAR MACON, GA.

LOCATION.--Lat 32°48'32", long 83°45'30", Bibb County, Hydrologic Unit 03070103, on right bank at downstream end of pier of bridge on U.S. Highway 80, 8 mi (13 km) west of Macon, and 14 mi (23 km) upstream from mouth.

DRAINAGE AREA.--182 mi^2 (471 km^2).

PERIOD OF RECORD.--March 1937 to current year.

REVISED RECORDS.--WSP 1204: 1942.

GAGE.--Water-stage recorder. Datum of gage is 309.98 ft (94.482 m) National Geodetic Vertical Datum of 1929. Prior to Aug. 28, 1942, nonrecording gage at same site and datum.

REMARKS.--Records good. Flow regulated to some extent since November 1967 by Lake Tobesofkee, about 1 mi (1.6 km) upstream. Records of chemical analyses for the water years 1969-70 are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--45 years, 196 ft^3/s (5.551 m^3/s), 14.62 in/yr (371 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,830 ft^3/s (278 m^3/s) Mar. 21, 1944, gage height, 23.2 ft (7.07 m), from rating curve extended above 6,300 ft^3/s (178 m^3/s); minimum, 2.3 ft^3/s (0.065 m^3/s) Oct. 10, 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,900 ft^3/s (53.8 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Dec. 31	1530	2930	83.0	12.16	3.706	Feb. 16	2230	2180	61.7	10.03	3.057
Feb. 3	1245	*4780	135	16.48	5.023	Apr. 26	0630	3340	94.6	13.18	4.017

Minimum daily discharge, 17 ft^3/s (0.48 m^3/s) Oct. 21-24, 29-31, Nov. 1-5, 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	17	20	1580	152	142	80	185	72	46	55	42
2	19	17	20	596	152	142	81	169	72	45	186	46
3	20	17	20	444	2570	140	82	162	71	42	246	50
4	20	17	20	799	2890	133	87	157	72	41	193	54
5	20	17	20	584	1090	128	93	150	71	39	163	55
6	19	18	20	402	594	128	384	112	70	39	135	53
7	19	18	20	308	343	196	274	91	66	37	130	50
8	19	18	21	259	247	336	206	97	60	36	123	47
9	21	18	21	214	214	268	157	116	57	35	118	46
10	22	17	21	187	202	235	112	123	54	36	114	47
11	22	18	21	177	196	211	98	126	52	38	109	44
12	20	18	21	164	187	180	96	123	51	43	100	45
13	20	18	21	147	180	128	92	123	48	47	95	47
14	19	18	21	159	169	128	91	118	43	50	86	54
15	19	18	23	167	100	130	94	116	43	212	72	57
16	19	18	23	172	436	130	95	110	42	354	62	60
17	19	18	23	194	874	128	104	108	43	270	57	59
18	18	18	23	205	536	123	113	108	42	177	59	61
19	18	18	23	197	380	123	116	108	40	97	59	62
20	18	18	25	188	244	123	719	110	40	90	60	62
21	17	18	26	183	187	123	951	114	38	87	61	61
22	17	18	26	180	180	123	387	114	40	85	62	60
23	17	18	27	178	169	116	259	118	41	88	60	54
24	17	20	29	180	152	110	215	126	42	85	58	48
25	22	19	950	172	150	110	410	286	41	80	55	43
26	21	20	761	172	150	101	1540	506	39	73	55	41
27	18	20	402	169	150	97	1230	280	41	71	53	40
28	17	20	340	164	147	95	860	164	42	70	49	37
29	17	20	284	159	---	91	537	98	46	65	47	37
30	17	20	223	154	---	86	312	72	46	57	45	37
31	17	---	1530	150	---	81	---	72	---	53	43	---
TOTAL	587	547	5025	9004	13041	4385	9875	4462	1525	2588	2810	1499
MEAN	18.9	18.2	162	290	466	141	329	144	50.8	83.5	90.6	50.0
MAX	22	20	1530	1580	2890	336	1540	506	72	354	246	62
MIN	17	17	20	147	100	81	80	72	38	35	43	37
CFSM	.10	.10	.89	1.59	2.56	.78	1.81	.79	.28	.46	.50	.28
IN.	.12	.11	1.03	1.84	2.67	.90	2.02	.91	.31	.53	.57	.31

CAL YR 1981 TOTAL 38880 MEAN 107 MAX 4730 MIN 17 CFSM .59 IN 7.95
WTR YR 1982 TOTAL 55348 MEAN 152 MAX 2890 MIN 17 CFSM .84 IN 11.31

02213700 OCMULGEE RIVER NEAR WARNER ROBINS, GA.

LOCATION.--Lat 32°40'17", long 83°36'11", Bibb-Twiggs County line, Hydrologic Unit 03070103, on right bank 0.8 mi (1.3 km) upstream from Echeconnee Creek, 4 mi (6.5 km) northeast of Warner Robins, and 5.7 mi (9.2 km) downstream from Tobesofkee Creek.
DRAINAGE AREA.--2,690 mi^2 (6,970 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1972 to current year, discharge below 3,600 ft^3/s (102 m^3/s), only.
GAGE.--Water-stage recorder. Altitude of gage is 251 ft (76 m), from topographic map.
REMARKS.--Records good except those of doubtful or no gage-height record, Oct. 7-30, Nov. 4 to Dec. 26, May 16-19, June 3 to July 23, which are poor. Flow regulated by Lloyd Shoals Reservoir. (See "Lakes and Reservoirs in Altamaha River Basin," station 02210000.)
EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 15.07 ft (4.593 m) Feb. 25, 1979; minimum daily discharge, 397 ft^3/s (11.2 m^3/s) Sept. 28, 1981.
EXTREMES FOR CURRENT YEAR.--Maximum gage height, 14.63 ft (4.459 m) Feb. 5; minimum daily discharge, 422 ft^3/s (12.0 m^3/s) Oct. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	427	553	600	---	2270	3460	2270	---	2470	1900	1270	776
2	423	444	680	---	2730	3410	2610	---	2710	1800	2240	779
3	422	533	770	---	3490	3160	2460	---	2150	1500	1990	874
4	423	548	865	---	---	3090	2380	3190	2500	1150	1610	1160
5	437	460	800	---	---	2980	2080	2890	2700	930	1640	1470
6	437	520	740	---	---	2900	2260	3120	2650	780	1450	1090
7	435	440	680	---	---	3060	3350	2730	2450	760	1490	915
8	440	510	640	---	---	---	---	1680	1900	830	1530	783
9	470	480	610	---	---	---	3480	2190	1610	1000	1390	753
10	530	550	590	---	---	---	3290	2440	1550	950	1430	755
11	570	580	580	---	---	---	3200	2070	1450	920	1290	1100
12	560	560	580	---	---	3490	3350	1820	1300	1100	1460	1530
13	540	450	590	---	---	2790	3050	1660	1150	1450	3090	1410
14	520	490	620	---	---	3000	2800	1570	1250	1500	3540	1020
15	500	540	750	---	---	3050	2680	1580	1500	1300	2930	1080
16	480	450	1080	---	---	[illegible]	2680	1480	1700	1600	2310	1060
17	470	510	1570	2840	---	[illegible]	2560	1780	1350	1850	1940	989
18	460	560	1700	2490	---	---	2540	1690	1100	2150	1820	833
19	450	490	1450	2210	---	---	2770	1700	1400	1950	1800	816
20	450	540	1400	2010	---	3540	2870	1690	1200	1800	1380	807
21	450	520	1350	1910	---	3340	3460	2370	1050	1800	1300	808
22	450	550	1300	2190	---	3330	---	2270	980	1750	1370	784
23	460	580	1200	2980	---	3250	---	2220	1200	1350	1170	765
24	470	530	1050	3200	---	3040	---	2390	1100	1170	1000	740
25	530	590	1000	3370	---	2930	---	2800	980	1390	902	726
26	780	600	2700	3260	2330	2900	---	2990	870	1350	946	719
27	814	600	---	2440	2180	2220	---	3300	890	1090	864	713
28	780	600	---	1760	3220	1700	---	3290	1050	1450	862	686
29	700	610	---	2000	---	2230	---	2830	1350	1320	832	702
30	680	610	---	2170	---	2310	---	2100	1800	1200	805	704
31	549	---	---	2150	---	2180	---	1640	---	1420	758	---
TOTAL	16157	15998	---	---	---	---	---	---	47360	42510	48409	27347
MEAN	521	533	---	---	---	---	---	---	1579	1371	1562	912
MAX	814	610	---	---	---	---	---	---	2710	2150	3540	1530
MIN	422	440	---	---	---	---	---	---	870	760	758	686

02213700 OCMULGEE RIVER NEAR WARNER ROBINS, GA.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.—May 1970 to current year.
PERIOD OF DAILY RECORD.—
SPECIFIC CONDUCTANCE: October 1970 to current year.
pH: October 1971 to current year.
WATER TEMPERATURES: February 1970 to current year.
DISSOLVED OXYGEN: May 1970 to current year.

REMARKS.—Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, Dissolved Oxygen, and Specific Conductance by U.S. Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.—
SPECIFIC CONDUCTANCE: Maximum recorded, 260 micromhos Sept. 29, 1981; minimum recorded, 25 micromhos Jan. 7, 1974.
pH: Maximum recorded, 7.8 units Oct. 1, 1971; minimum recorded, 5.2 units Jan. 14, 1972.
WATER TEMPERATURE: Maximum, 34.5°C July 17, 1981; minimum, 1.0°C Jan. 19, 20, 1977.
DISSOLVED OXYGEN: Maximum recorded, 16.5 mg/L Mar. 12, 1970; minimum, 0.0 mg/L June 8, 9, 1971, Sept. 17, 1980.

EXTREMES FOR CURRENT YEAR.—
SPECIFIC CONDUCTANCE: Maximum, 255 micromhos Nov. 7; minimum, 49 micromhos Feb. 5.
pH: Maximum, 7.3 units Dec. 9-13; minimum, 6.1 units Feb. 4, 5.
WATER TEMPERATURE: Maximum, 31.5°C July 4, 5, Aug. 29; minimum, 4.0°C Jan. 12, 13, 15.
DISSOLVED OXYGEN: Maximum, 11.9 mg/L Jan. 12, 13; minimum recorded, 0.2 mg/L Apr. 5.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE (DEG C)	TEMPERATURE, AIR (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT 20...	1400	430	187	182	7.0	7.5	18.5	19.0	5.3	56
NOV 30...	1510	490	181	200	7.1	7.0	14.0	11.5	6.7	66
DEC 16...	1130	1560	129	131	7.0	7.2	8.5	7.0	9.2	79
JAN 05...	1215	--	73	72	6.5	7.0	9.0	12.0	9.8	85
FEB 17...	1140	--	67	67	6.5	6.9	11.5	17.5	9.4	86
MAR 17...	1230	3280	77	72	6.7	7.1	15.5	22.0	8.4	85
APR 21...	1620	--	71	69	6.6	6.8	17.0	20.0	7.8	--
MAY 13...	1400	1630	92	90	6.5	7.0	23.0	30.0	6.3	74
JUN 09...	1450	1580	104	96	6.6	7.1	27.5	35.0	5.0	64
JUL 14...	1410	1200	124	118	6.6	7.1	28.0	30.0	4.9	63
AUG 18...	1500	1820	--	95	6.9	7.2	27.0	25.0	5.6	71
SEP 15...	1230	1110	110	107	7.0	7.2	27.5	26.0	5.1	65

DATE	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	ALKALINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 20...	40	8	22	3.3	4300	49	14	.68	.580	1.10	.310	10
NOV 30...	40	13	36	4.7	23000	45	27	.48	.280	1.40	.800	13
DEC 16...	60	25	27	4.1	43000	27	56	1.2	.280	1.20	.300	10
JAN 05...	200	56	23	1.5	430	13	42	.38	.100	.50	.160	6.0
FEB 17...	140	58	18	1.9	11000	15	90	.60	.130	.50	.200	7.0
MAR 17...	50	19	9	1.3	490	17	25	.21	.120	.30	.120	2.0
APR 21...	100	70	24	1.9	4900	18	75	.34	.210	.80	.220	8.0
MAY 13...	40	10	18	1.0	--	24	18	.37	.210	.34	.180	5.0
JUN 09...	60	11	14	1.4	70000	22	18	.58	.160	.20	.180	4.5
JUL 14...	60	11	16	1.6	33000	32	20	.64	.300	.70	.190	2.0
AUG 18...	50	20	15	.9	70000	26	19	.69	.240	.50	.200	2.0
SEP 15...	60	12	15	.9	170000	30	13	.46	.240	.70	.190	5.5

02213700 OCMULGEE RIVER NEAR WARNER ROBINS, GA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	235	211	203	190	191	182	87	66	105	98	74	70
2	230	205	231	201	191	170	67	57	99	91	76	72
3	218	203	225	189	169	154	76	67	94	70	84	72
4	210	198	202	189	155	148	78	72	71	52	82	74
5	204	184	249	204	170	155	75	68	59	49	86	77
6	208	193	243	205	184	169	75	67	62	57	88	78
7	219	201	255	219	185	173	70	61	66	55	87	77
8	223	207	248	196	187	172	65	60	61	53	83	76
9	219	207	219	208	197	179	66	63	60	53	79	74
10	215	195	217	192	197	184	64	63	66	57	78	74
11	199	172	208	194	200	187	65	62	69	61	81	75
12	185	177	218	202	198	185	66	62	69	61	87	79
13	190	168	252	210	197	182	68	61	71	63	92	87
14	195	183	250	208	195	172	70	63	72	64	86	80
15	215	193	214	195	178	139	75	69	72	66	84	79
16	220	210	232	202	139	120	78	72	75	66	86	76
17	226	204	239	197	122	114	86	79	69	62	83	75
18	215	194	---	---	131	120	84	79	65	50	80	70
19	216	192	---	---	139	131	85	81	68	51	82	76
20	209	189	216	210	139	136	90	83	70	65	84	78
21	217	195	213	202	142	136	93	87	73	62	84	78
22	224	209	209	187	146	140	93	73	74	69	83	79
23	216	209	198	181	151	142	77	72	76	71	88	80
24	216	204	199	185	158	149	80	73	77	68	88	81
25	202	140	196	177	149	88	81	73	84	73	86	77
26	154	130	190	179	89	67	83	81	98	85	92	79
27	159	149	185	172	90	82	100	83	98	74	107	88
28	163	150	185	172	94	88	111	97	75	69	111	88
29	175	162	192	182	96	90	99	92	---	---	91	80
30	184	169	195	182	100	96	102	91	---	---	90	82
31	200	184	---	---	101	89	105	97	---	---	92	83
MONTH	235	130	255	172	200	67	111	57	105	49	111	70

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	91	83	70	67	91	79	105	100	122	91	144	137
2	85	78	71	69	93	84	103	101	101	67	145	139
3	91	81	75	70	102	86	133	104	108	97	140	125
4	96	85	84	73	89	83	133	121	115	99	125	96
5	100	87	84	71	91	89	141	132	108	98	96	93
6	100	83	82	70	92	88	141	135	120	102	117	97
7	83	75	95	81	91	88	141	139	119	101	121	109
8	82	79	97	85	98	89	143	134	115	102	129	120
9	83	79	91	74	103	90	132	119	116	99	140	129
10	84	81	89	76	104	90	129	115	109	105	138	130
11	85	75	92	80	120	97	127	118	116	107	125	102
12	85	76	94	82	140	120	116	106	120	93	104	95
13	86	82	98	85	---	---	105	98	95	85	110	95
14	90	84	98	87	---	---	130	105	104	94	122	109
15	89	85	97	86	---	---	119	111	107	102	122	109
16	89	85	96	87	---	---	120	109	102	100	124	116
17	93	86	101	93	---	---	109	95	104	101	136	120
18	87	81	102	89	---	---	103	99	104	100	146	136
19	87	83	104	87	---	---	101	99	104	100	142	134
20	84	65	106	81	---	---	109	100	123	103	138	132
21	73	60	90	81	---	---	104	100	123	111	144	137
22	72	67	93	78	137	117	121	103	111	103	144	137
23	74	68	91	82	123	106	126	111	117	104	145	140
24	77	74	92	81	130	124	134	112	131	115	148	137
25	81	74	94	84	141	129	122	110	138	131	154	145
26	75	64	95	79	150	140	122	109	131	122	154	145
27	67	60	92	80	154	150	136	121	146	127	151	128
28	69	60	87	80	163	155	124	113	143	135	142	131
29	70	67	96	88	168	106	131	120	145	136	145	138
30	70	68	103	91	106	100	134	121	141	136	150	138
31	---	---	108	90	---	---	124	113	145	134	---	---
MONTH	100	60	108	67	168	79	143	95	146	67	154	93
YEAR	255	49										

02213700 OCMULGEE RIVER NEAR WARNER ROBINS, GA.--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	7.1	7.0	7.1	7.0	7.2	7.1	6.8	6.4	6.8	6.7	6.6	6.6
2	7.1	7.0	7.0	6.9	7.2	7.0	6.4	6.3	6.8	6.8	6.6	6.5
3	7.1	7.0	6.9	6.8	7.0	7.0	6.5	6.4	6.8	6.4	6.6	6.5
4	7.1	7.0	6.8	6.6	7.0	7.0	6.5	6.5	6.4	6.1	6.6	6.5
5	7.1	7.0	6.8	6.7	7.0	7.0	6.5	6.4	6.2	6.1	6.6	6.5
6	7.1	7.0	6.8	6.8	7.0	7.0	6.5	6.4	6.3	6.2	6.6	6.6
7	7.1	7.0	6.8	6.7	7.0	6.9	6.4	6.3	6.3	6.2	6.6	6.6
8	7.1	7.1	6.8	6.7	7.2	6.9	6.4	6.3	6.3	6.3	6.6	6.6
9	7.1	7.0	6.8	6.7	7.3	7.2	6.4	6.3	6.4	6.3	6.6	6.6
10	7.0	6.9	6.7	6.7	7.3	7.2	6.4	6.4	6.4	6.3	6.6	6.6
11	6.9	6.8	6.7	6.6	7.3	7.3	6.5	6.4	6.4	6.4	6.7	6.6
12	7.0	6.8	6.8	6.6	7.3	7.3	6.5	6.5	6.5	6.4	6.6	6.6
13	6.9	6.8	6.8	6.8	7.3	7.2	6.5	6.5	6.5	6.4	6.6	6.5
14	6.9	6.8	6.8	6.7	7.2	7.2	6.6	6.5	6.5	6.5	6.7	6.6
15	6.9	6.9	6.8	6.6	7.2	7.0	6.6	6.5	6.5	6.5	6.7	6.7
16	6.9	6.9	6.7	6.6	7.1	7.0	6.5	6.5	6.6	6.5	6.7	6.6
17	6.9	6.9	6.7	6.7	7.1	7.1	6.5	6.5	6.6	6.4	6.7	6.6
18	7.0	6.9	---	---	7.1	7.1	6.6	6.5	6.4	6.3	6.7	6.6
19	7.0	7.0	---	---	7.2	7.1	6.6	6.5	6.4	6.3	6.6	6.6
20	7.2	7.0	6.9	6.8	7.2	7.2	6.5	6.5	6.5	6.4	6.6	6.6
21	7.3	7.1	7.0	6.9	7.2	7.1	6.6	6.5	6.5	6.5	6.7	6.6
22	7.2	7.1	7.0	7.0	7.1	7.1	6.7	6.6	6.6	6.5	6.7	6.6
23	7.1	7.1	7.1	7.0	7.1	7.1	6.7	6.7	6.6	6.6	6.7	6.6
24	7.1	7.1	7.0	6.9	7.1	7.1	6.7	6.7	6.6	6.5	6.6	6.6
25	7.1	6.9	7.0	6.9	7.1	6.9	6.7	6.7	6.6	6.5	6.7	6.6
26	6.9	6.8	7.0	6.9	6.9	6.8	6.7	6.7	6.5	6.4	6.7	6.6
27	6.8	6.8	7.0	6.9	6.8	6.7	6.7	6.6	6.6	6.5	6.7	6.6
28	6.8	6.7	7.0	7.0	6.8	6.8	6.7	6.7	6.6	6.6	6.7	6.5
29	7.1	6.8	7.1	7.0	6.8	6.7	6.7	6.7	---	---	6.7	6.7
30	7.1	7.1	7.2	7.1	6.8	6.7	6.8	6.8	---	---	6.7	6.7
31	7.1	7.1	---	---	6.9	6.8	6.8	6.8	---	---	6.7	6.6
MONTH	7.3	6.7	7.2	6.6	7.3	6.7	6.8	6.3	6.8	6.1	6.7	6.5

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	6.7	6.7	6.5	6.5	7.0	7.0	6.6	6.5	6.8	6.7	7.0	6.9
2	6.7	6.7	6.5	6.5	7.0	7.0	6.6	6.6	6.7	6.5	7.0	6.9
3	6.7	6.6	6.6	6.5	7.1	6.9	6.7	6.6	6.7	6.6	7.0	6.9
4	6.6	6.4	6.5	6.5	7.0	6.9	6.6	6.3	6.7	6.7	6.9	6.9
5	6.6	6.4	6.6	6.5	7.0	7.0	6.4	6.3	6.7	6.6	6.9	6.9
6	6.7	6.5	6.6	6.6	6.9	6.9	6.3	6.3	6.7	6.6	6.9	6.9
7	6.7	6.6	6.6	6.4	6.9	6.9	6.4	6.3	6.7	6.6	6.9	6.8
8	6.6	6.6	6.5	6.4	6.8	6.7	6.6	6.4	6.7	6.6	7.0	6.8
9	6.7	6.6	6.5	6.4	6.6	6.5	6.6	6.6	6.7	6.6	7.1	7.0
10	6.7	6.7	6.5	6.4	6.6	6.5	6.6	6.5	6.7	6.6	7.1	7.1
11	6.7	6.6	6.4	6.4	6.6	6.5	6.6	6.5	6.7	6.6	7.1	7.0
12	6.7	6.6	6.4	6.3	6.7	6.5	6.6	6.5	6.8	6.7	7.1	7.0
13	6.7	6.6	6.6	6.4	---	---	6.6	6.5	6.9	6.8	7.0	7.0
14	6.7	6.6	6.6	6.5	---	---	6.5	6.5	6.9	6.8	7.0	7.0
15	6.7	6.7	6.6	6.6	---	---	6.7	6.6	6.8	6.7	7.1	7.0
16	6.7	6.7	6.6	6.5	---	---	6.7	6.7	6.9	6.8	7.1	7.0
17	6.7	6.7	6.6	6.6	---	---	6.8	6.7	6.9	6.9	7.0	7.0
18	6.7	6.7	6.6	6.5	---	---	6.7	6.7	7.0	6.9	6.9	6.9
19	6.7	6.7	6.7	6.6	---	---	6.8	6.7	7.0	7.0	6.9	6.8
20	6.8	6.6	6.8	6.7	---	---	6.8	6.7	7.0	6.9	6.8	6.8
21	6.7	6.6	6.8	6.8	---	---	6.9	6.8	7.0	6.9	6.8	6.8
22	6.6	6.5	6.9	6.8	6.6	6.4	6.9	6.8	6.9	6.9	6.8	6.8
23	6.5	6.5	6.9	6.6	6.5	6.4	6.8	6.8	6.9	6.8	6.8	6.7
24	6.5	6.4	6.9	6.6	6.4	6.4	6.8	6.7	6.8	6.7	6.8	6.7
25	6.5	6.5	6.8	6.8	6.4	6.4	6.8	6.7	6.8	6.7	6.8	6.7
26	6.5	6.4	6.9	6.7	6.7	6.4	6.7	6.7	6.8	6.8	6.8	6.7
27	6.4	6.3	6.9	6.8	6.8	6.7	6.8	6.6	6.8	6.7	6.8	6.7
28	6.4	6.2	6.9	6.8	6.8	6.7	6.8	6.6	6.8	6.7	6.8	6.7
29	6.4	6.4	7.0	6.9	6.8	6.5	6.7	6.6	6.8	6.7	6.7	6.7
30	6.5	6.4	7.0	6.9	6.6	6.3	6.8	6.7	6.9	6.8	6.8	6.8
31	---	---	7.0	6.9	---	---	6.8	6.8	6.9	6.8	---	---
MONTH	6.8	6.2	7.0	6.3	7.1	6.3	6.9	6.3	7.0	6.5	7.1	6.7
YEAR	7.3	6.1										

02213700 OCMULGEE RIVER NEAR WARNER ROBINS, GA.--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	27.5	25.5	18.5	17.0	14.5	13.5	8.0	7.5	10.0	9.5	10.5	9.5
2	27.0	25.0	19.5	18.0	15.5	14.5	8.5	8.0	9.5	9.0	11.5	10.0
3	24.5	22.5	21.0	19.0	15.0	13.5	9.0	8.5	9.0	8.0	12.5	11.0
4	23.0	20.5	21.5	20.0	13.5	12.5	10.0	9.0	9.5	8.0	13.0	11.5
5	23.0	20.5	22.0	21.0	12.5	11.5	10.0	8.5	10.0	9.0	14.0	12.5
6	24.0	21.5	22.0	20.5	11.5	10.5	8.5	8.0	9.5	9.5	14.5	13.5
7	24.5	23.0	20.5	18.5	11.5	10.0	9.5	8.5	9.0	8.5	14.5	13.5
8	23.5	22.0	18.0	16.5	12.5	10.5	9.5	9.0	9.0	8.5	13.0	11.0
9	22.0	21.0	17.0	15.5	12.5	11.5	9.5	8.5	10.0	9.0	12.0	11.0
10	21.0	20.5	17.0	16.5	11.0	9.5	8.0	6.5	10.0	9.0	13.0	11.5
11	20.5	20.0	18.0	16.5	9.5	8.5	6.5	4.5	9.5	9.0	13.5	12.5
12	21.5	19.5	17.5	16.0	9.5	8.5	4.5	4.0	9.5	9.0	15.0	13.5
13	21.5	20.0	16.5	15.0	9.5	9.0	5.0	4.0	9.5	8.5	16.0	14.5
14	21.0	19.0	15.5	13.5	10.0	9.5	5.0	4.5	9.5	9.0	16.5	15.5
15	21.5	19.0	14.5	12.5	10.0	10.0	4.5	4.0	10.0	9.5	16.5	15.5
16	22.5	20.0	15.0	13.5	10.0	8.5	5.0	4.5	11.0	10.0	17.0	16.0
17	23.0	21.0	15.5	14.5	9.0	8.0	5.5	5.0	12.5	11.0	16.5	15.5
18	23.0	22.0	---	---	9.5	8.5	5.0	4.5	12.5	12.0	16.5	15.5
19	22.0	20.0	---	---	8.5	6.5	7.0	5.0	12.0	11.5	17.5	16.5
20	20.0	17.5	16.0	15.0	6.5	6.0	9.0	7.0	12.0	11.5	19.0	17.5
21	19.5	17.5	15.0	13.0	6.0	5.5	10.5	9.0	12.5	11.5	19.5	18.5
22	21.0	18.5	13.0	11.5	8.5	5.5	11.0	10.0	12.0	11.5	18.0	17.5
23	21.0	19.0	13.0	11.5	11.0	8.5	10.0	8.5	12.0	11.5	17.0	16.5
24	19.0	16.5	14.0	12.5	11.5	11.0	8.5	7.0	13.0	12.0	16.5	16.5
25	16.5	15.0	14.0	12.5	11.5	10.0	7.0	6.5	14.0	12.5	16.5	16.0
26	17.0	15.0	14.0	12.0	10.0	9.0	7.0	6.0	13.5	11.5	16.5	15.5
27	18.5	17.0	15.0	13.0	9.0	8.5	6.0	5.5	11.5	10.0	15.5	15.0
28	18.5	17.5	16.0	15.0	9.0	8.5	6.5	5.5	10.0	9.5	14.5	13.5
29	18.5	17.5	16.0	14.5	9.5	9.0	7.0	6.0	---	---	13.5	13.0
30	18.0	17.5	15.0	14.0	9.5	9.0	8.0	7.0	---	---	15.0	13.5
31	17.5	17.0	---	---	9.0	8.0	9.5	8.0	---	---	16.0	15.0
MONTH	27.5	15.0	22.0	11.5	15.5	5.5	11.0	4.0	14.0	8.0	19.5	9.5

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	17.5	16.0	18.0	17.5	28.0	26.5	28.5	27.5	27.5	26.5	30.0	28.0
2	17.5	17.5	18.5	18.0	27.0	26.0	29.0	28.0	26.5	25.0	29.0	28.0
3	18.5	17.0	19.5	18.0	27.0	26.0	30.0	28.0	27.5	26.0	29.0	27.5
4	18.0	15.5	20.0	19.0	26.5	25.5	31.5	29.0	28.5	26.5	28.5	27.5
5	17.5	15.0	20.5	19.5	25.5	25.0	31.5	29.0	28.5	28.0	27.5	26.5
6	15.5	15.0	20.0	19.5	26.0	25.0	31.0	30.0	28.5	27.5	27.0	26.0
7	15.0	14.5	20.0	19.5	26.5	25.5	30.0	29.0	29.0	28.0	27.0	25.5
8	15.0	14.5	21.0	20.0	27.0	25.5	30.0	28.0	28.5	27.0	27.0	25.0
9	15.0	14.0	21.0	20.5	28.0	26.5	29.5	28.0	28.5	27.5	26.0	25.5
10	16.0	15.0	22.0	20.5	29.0	27.0	28.0	27.0	28.5	27.0	25.5	24.5
11	17.0	15.5	23.0	21.0	30.0	28.0	27.0	26.5	29.0	28.0	25.0	24.5
12	17.0	16.0	23.5	22.0	30.0	26.5	27.0	26.5	29.5	28.0	25.5	25.0
13	17.5	16.0	23.0	22.0	---	---	28.0	27.0	28.5	27.0	25.5	25.0
14	18.0	17.0	24.0	22.5	---	---	28.5	27.0	27.5	27.0	27.0	25.0
15	18.5	17.5	24.0	23.0	---	---	28.5	27.5	27.5	26.5	28.0	26.5
16	19.0	18.0	24.0	23.0	---	---	28.5	27.5	28.0	27.5	29.0	27.5
17	19.0	18.5	24.5	23.5	---	---	28.0	27.0	27.5	27.0	29.0	28.0
18	19.5	18.5	25.0	23.5	---	---	27.5	27.0	27.0	26.5	29.0	28.0
19	18.5	17.0	25.5	23.5	---	---	28.0	27.5	26.5	26.0	28.5	27.0
20	17.5	16.5	26.0	24.5	---	---	28.5	27.5	27.5	26.0	28.0	27.0
21	17.5	16.5	25.5	24.0	---	---	29.5	28.5	28.5	27.0	27.0	26.0
22	17.5	17.0	25.5	24.0	29.0	27.0	29.5	29.0	28.5	27.5	26.0	24.0
23	17.0	16.5	25.5	24.5	28.5	27.5	29.0	28.0	29.0	28.0	24.0	22.5
24	16.5	16.0	25.0	24.0	29.5	27.5	28.5	27.5	30.0	28.0	23.5	21.5
25	17.0	16.5	25.5	24.0	30.0	28.0	29.0	27.5	30.5	28.5	23.5	21.5
26	17.5	16.5	25.0	24.0	30.5	28.0	29.5	28.5	31.0	29.5	23.5	22.0
27	18.0	17.0	24.5	23.5	30.0	27.5	30.0	28.5	31.0	29.5	23.0	21.5
28	18.0	17.5	26.0	24.0	29.0	25.5	29.0	28.0	31.0	29.5	24.0	21.5
29	18.5	17.5	27.5	25.5	28.5	26.0	29.0	28.0	31.5	29.5	24.5	22.5
30	18.0	17.5	27.5	26.5	28.0	25.5	29.5	28.5	31.0	29.0	24.5	23.0
31	---	---	29.0	27.0	---	---	28.5	27.5	29.5	28.0	---	---
MONTH	19.5	14.0	29.0	17.5	30.5	25.0	31.5	26.5	31.5	25.0	30.0	21.5
YEAR	31.5	4.0										

02213700 OCMULGEE RIVER NEAR WARNER ROBINS, GA.—Continued

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	3.6	2.9	5.9	5.5	6.8	6.3	10.6	10.1	9.7	9.3	10.7	10.5
2	3.6	3.0	5.6	4.4	6.3	5.4	10.1	9.9	9.9	9.7	10.5	10.0
3	4.2	3.6	5.3	4.6	7.3	5.9	9.9	9.9	10.4	10.0	10.0	9.5
4	5.0	4.2	5.0	4.2	7.8	7.5	9.9	9.8	10.4	8.8	9.8	9.3
5	5.5	5.0	4.2	3.2	8.0	7.6	9.9	9.6	9.5	9.0	9.4	8.8
6	5.3	4.1	6.7	6.5	8.3	7.8	10.1	9.9	9.4	8.6	9.0	8.4
7	4.5	3.9	4.2	3.8	8.6	8.1	10.1	9.7	9.7	9.3	8.9	8.4
8	4.5	3.8	5.5	4.1	8.5	7.5	9.7	9.5	9.8	9.4	9.9	9.0
9	4.6	4.1	6.1	5.5	7.7	7.3	10.0	9.6	9.8	9.1	10.1	9.9
10	5.0	4.2	6.6	6.0	8.0	7.5	10.7	10.1	9.6	9.0	10.1	9.7
11	4.9	4.1	6.2	5.3	8.5	8.0	11.6	10.7	9.7	9.5	9.7	9.3
12	5.4	4.9	5.6	5.2	8.7	8.5	11.9	11.6	9.9	9.7	9.4	8.4
13	5.5	4.6	5.8	4.6	8.9	8.6	11.9	11.7	10.1	9.9	8.4	7.8
14	5.2	4.6	5.9	4.6	9.0	8.7	11.7	11.5	10.1	10.1	8.5	8.2
15	5.3	4.3	6.5	5.9	8.8	8.2	11.7	11.5	10.2	9.9	8.6	8.2
16	4.5	4.0	6.1	5.2	9.6	8.6	11.5	11.4	10.0	9.7	8.4	7.3
17	4.5	3.9	5.8	5.1	9.6	9.6	11.4	10.9	9.8	9.1	8.4	7.4
18	4.1	3.7	---	---	9.7	9.4	11.4	11.0	9.2	8.5	8.1	7.5
19	4.7	3.9	---	---	10.3	9.7	11.5	10.8	9.2	8.9	7.7	6.9
20	5.3	4.8	6.0	5.6	10.9	10.5	10.8	10.0	9.4	9.2	7.2	6.8
21	5.3	4.4	6.5	5.6	11.3	11.0	10.0	9.3	9.5	9.3	7.4	6.8
22	4.8	4.1	7.4	6.6	11.4	10.7	9.8	8.9	9.7	9.5	7.9	7.7
23	4.5	4.0	7.9	7.4	10.7	9.4	10.4	9.8	9.8	9.6	8.3	7.8
24	5.4	4.5	7.9	7.0	9.4	8.4	10.9	10.4	9.8	9.5	8.5	8.0
25	6.6	5.5	7.2	6.9	9.3	8.6	11.0	10.9	9.5	8.7	8.5	7.8
26	6.6	6.3	7.6	7.1	9.5	9.4	11.0	11.0	8.7	8.1	8.0	7.7
27	6.3	5.6	7.4	6.9	9.7	9.6	10.9	10.4	10.1	8.4	8.1	7.2
28	6.0	5.6	7.1	6.7	10.0	9.8	10.6	10.2	10.7	10.2	8.6	7.1
29	5.9	5.6	6.8	6.5	10.0	9.6	10.8	10.6	---	---	9.8	7.9
30	6.1	5.6	6.7	6.5	9.8	9.6	10.9	10.4	---	---	9.8	9.2
31	5.9	5.4	---	---	10.5	9.8	10.5	9.7	---	---	9.2	8.0
MONTH	6.6	2.9	7.9	3.2	11.4	5.4	11.9	8.9	10.7	8.1	10.7	6.8

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	8.3	7.6	8.1	7.9	6.0	5.4	5.6	5.3	6.1	5.4	4.2	3.7
2	7.8	7.4	8.1	7.9	6.1	6.0	5.6	5.4	6.4	6.0	4.4	3.8
3	7.5	5.5	8.2	7.7	6.0	5.4	---	---	6.2	5.8	4.2	3.3
4	6.0	.4	7.8	7.1	6.0	5.4	---	---	6.1	5.5	5.5	4.4
5	7.8	.2	8.2	7.2	6.0	5.9	---	---	6.2	5.4	5.9	5.5
6	8.2	7.1	8.2	7.9	6.2	5.9	---	---	6.3	5.0	5.9	5.0
7	8.4	7.7	7.8	6.6	6.3	6.1	---	---	6.0	4.9	5.6	4.9
8	7.9	7.5	7.1	6.3	6.2	5.6	4.8	4.6	6.2	5.3	5.1	4.3
9	7.9	7.5	7.8	6.7	5.8	4.9	5.2	4.8	5.5	5.1	4.8	4.2
10	7.9	7.5	7.6	6.0	5.6	4.5	5.2	4.1	5.7	5.3	4.9	4.3
11	8.0	6.9	6.2	5.5	4.9	4.5	5.4	4.5	5.5	4.8	6.1	4.9
12	8.2	7.6	6.1	5.8	---	---	5.8	5.2	6.2	5.0	6.3	5.7
13	7.9	7.5	6.4	5.6	---	---	6.0	5.5	6.6	6.3	6.4	5.4
14	8.2	7.4	6.1	5.5	---	---	5.8	4.8	6.5	6.1	5.6	4.6
15	---	---	6.1	5.1	---	---	5.6	5.0	6.2	5.8	5.3	4.7
16	---	---	5.5	4.7	---	---	5.7	5.0	6.3	5.9	5.1	4.7
17	---	---	5.9	4.8	---	---	6.3	5.5	6.3	6.0	4.9	4.0
18	---	---	6.0	5.0	---	---	6.2	5.9	5.8	5.5	4.2	3.7
19	---	---	6.4	4.7	---	---	6.2	6.0	6.0	5.8	4.4	3.7
20	---	---	6.5	5.0	---	---	6.1	5.4	5.9	4.7	4.4	4.1
21	7.6	7.1	6.6	6.0	---	---	6.0	5.8	5.4	4.7	4.6	3.9
22	7.2	6.8	6.7	5.6	5.6	4.3	6.0	4.9	5.5	5.0	4.3	3.9
23	7.2	7.0	6.8	6.1	6.3	5.0	5.4	4.6	5.4	4.7	4.7	4.1
24	7.5	7.3	6.8	5.9	5.4	4.4	5.5	4.3	5.1	4.2	5.1	4.3
25	7.7	7.5	6.4	5.3	4.7	4.0	5.7	5.2	4.3	3.6	5.3	4.5
26	7.7	7.3	6.1	5.0	4.4	4.0	5.6	5.1	4.1	3.6	5.1	4.6
27	7.4	6.7	6.0	5.4	---	---	5.1	4.2	3.9	3.0	5.7	5.1
28	7.3	7.0	5.8	5.4	---	---	5.0	4.4	3.5	2.6	5.4	4.1
29	7.4	7.2	5.7	5.1	---	---	4.9	4.5	---	---	4.7	4.1
30	7.9	7.4	5.6	4.6	5.5	5.2	5.2	4.8	---	---	4.9	4.2
31	---	---	5.4	4.3	---	---	5.6	5.2	4.3	3.7	---	---
MONTH	8.4	.2	8.2	4.3	6.3	4.0	6.3	4.1	6.6	2.6	6.4	3.3
YEAR	11.9	.2										

02214265 OCMULGEE RIVER NEAR BONAIRE, GA.

LOCATION.--Lat 32°32'33", long 83°32'13", Houston-Twiggs County line, Hydrologic Unit 03070104, at bridge on State Highway 96, 0.4 mi (0.6 km) downstream from Flat Creek and 3.5 mi (5.6 km) east of Bonaire.

PERIOD OF RECORD.--August 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, Dissolved Oxygen, and Specific Conductance by U.S. Geological Survey. Flow regulated by Lloyd Shoals Reservoir. (See "Lakes and Reservoirs in Altamaha River Basin", station 02210000.)

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE (DEG C)	TEMPERATURE, AIR (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT 19...	1320	515	--	151	7.0	7.0	16.0	22.5	7.0	72
NOV 19...	1150	655	--	155	--	7.2	10.0	26.0	9.4	85
DEC 07...	1210	805	--	138	6.7	7.1	6.0	18.5	9.9	80
JAN 18...	1155	4960	--	68	--	6.5	4.0	7.0	11.3	87
FEB 15...	1155	8040	--	53	6.2	6.6	11.0	20.0	8.2	75
MAR 15...	1620	3480	--	77	6.4	6.8	17.0	27.5	7.9	83
APR 19...	1440	2950	82	81	6.8	6.9	18.0	19.0	7.2	77
MAY 17...	1340	1820	91	91	6.7	7.0	23.0	32.0	6.6	78
JUN 24...	1415	1420	109	105	6.7	6.9	28.0	32.0	5.4	70
JUL 19...	0945	2550	93	89	6.7	6.9	27.0	30.0	5.6	71
AUG 16...	0930	3100	94	89	6.8	6.9	26.0	25.0	5.3	66
SEP 27...	0950	862	125	126	7.1	7.1	21.0	19.5	5.8	66

DATE	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	ALKALINITY LAB (MG/L AS CACO3)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 19...	25	6	1.2	430	41	.68	.320	.250	5.5
NOV 19...	40	6	1.3	430	38	.44	.190	.200	11
DEC 07...	50	10	2.8	9300	36	.54	.420	.230	6.3
JAN 18...	160	32	.7	80	14	.34	.080	.100	10
FEB 15...	140	30	.7	220	13	.37	.040	.100	5.0
MAR 15...	50	18	1.1	1500	20	.41	.090	.130	8.0
APR 19...	45	11	.9	4900	22	.45	.080	.140	2.0
MAY 17...	40	9	.2	3300	18	.63	.250	.160	4.0
JUN 24...	40	14	1.4	4900	23	.64	.200	.180	5.0
JUL 19...	60	15	1.2	7900	22	.62	.180	.160	4.0
AUG 16...	50	15	--	--	24	.64	.060	.160	4.0
SEP 27...	40	8	1.1	2300	32	.78	.210	.200	4.5

02215500 OCMULGEE RIVER AT LUMBER CITY, GA.

LOCATION.--Lat 31°55'06", long 82°40'26", Telfair-Jeff Davis County line, Hydrologic Unit 03070104, near left bank on downstream end of pier of bridge on U.S. Highway 341 at Lumber City, 500 ft (152 m) downstream from Southern Railway bridge, 1 mi (1.6 km) upstream from Little Ocmulgee River, and 12 mi (19.3 km) upstream from confluence with Oconee River.
DRAINAGE AREA.--5,180 mi^2 (13,400 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1936 to current year. Gage-height records collected at same site since 1908 are contained in reports of National Weather Service.
REVISED RECORDS.--WSP 1504: 1937.
GAGE.--Water-stage recorder. Datum of gage is 87.48 ft (26.664 m) National Geodetic Vertical Datum of 1929. Prior to Nov. 8, 1937, nonrecording gage at same site and datum.
REMARKS.--Records good. Flow regulated by Lloyds Shoals Reservoir. (See "Lakes and Reservoirs in Altamaha River Basin", station 02210000.)
AVERAGE DISCHARGE.--46 years, 5,578 ft^3/s (158.0 m^3/s), 14.62 in/yr (371 mm/yr).
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 70,000 ft^3/s (1,980 m^3/s) Dec. 8, 1948; maximum gage height, 22.7 ft (6.92 m) Dec. 9, 1948; minimum discharge, 800 ft^3/s (22.7 m^3/s) Oct. 30 to Nov. 3, 1954.
EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge known since at least 1841, 98,400 ft^3/s (2,790 m^3/s) Jan. 21, 1925, from rating extended above 67,000 ft^3/s (1,900 m^3/s) on basis of records of peak flow for stations on Ocmulgee, Oconee, and Altamaha Rivers; maximum stage known, 26.3 ft (8.02 m) Jan. 21, 1925, backwater from Oconee River.
EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 15,000 ft^3/s (425 m^3/s) and maximum (*):

		Discharge		Gage height				Discharge		Gage height	
Date	Time	(ft^3/s)	(m^3/s)	(ft)	(m)	Date	Time	(ft^3/s)	(m^3/s)	(ft)	(m)
Jan. 16	2200	17600	498	13.33	4.063	Feb. 15	1700	*24500	694	15.08	4.596

Minimum discharge, 950 ft^3/s (26.9 m^3/s) Oct. 7-9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1030	1530	1240	3890	5630	9760	4790	9280	5870	3550	3310	1930
2	1020	1520	1320	4510	5340	9180	4390	9480	5870	3310	3360	1850
3	991	1460	1370	4880	5190	8420	4280	9430	5980	3300	3410	1800
4	975	1380	1350	5270	5590	7570	4370	9370	6060	3310	3300	1760
5	971	1340	1330	5760	6110	6830	4560	9660	6250	3220	3270	1870
6	962	1270	1360	6360	6600	6430	5420	10400	6730	3050	3380	1850
7	954	1200	1430	7070	7120	6380	6130	11300	7110	2790	3400	1790
8	951	1180	1510	7970	7920	6570	6620	11700	7370	2570	3270	1910
9	957	1160	1520	8950	9020	6770	7230	11000	7240	2500	3210	2070
10	1040	1150	1460	10000	10100	6890	8110	9550	6830	2410	3120	2040
11	1020	1170	1390	11500	11300	7040	9280	7760	6250	2270	3170	2050
12	1020	1170	1330	13000	13100	7310	10200	6090	5320	2240	3310	2570
13	1010	1170	1300	14700	17400	7590	10400	4930	4300	2270	3300	2320
14	1020	1170	1290	16100	21700	7670	9730	4330	3660	2450	3300	2160
15	1070	1180	1320	17000	24200	7510	8630	3980	3320	2710	3290	2300
16	1120	1190	1390	17500	23700	7260	7520	3660	3140	3140	3220	2530
17	1130	1180	1450	17400	21500	7050	6750	3370	3090	3520	3390	2460
18	1110	1150	1580	16500	18900	6850	6180	3170	3170	3510	3670	2230
19	1080	1150	1890	14900	16300	6600	5810	3040	3190	3410	4450	2110
20	1060	1140	2190	13000	13800	6250	5510	2980	3070	3420	5100	2070
21	1050	1110	2370	11500	11900	5890	5260	2980	2900	3470	4670	2040
22	1040	1120	2340	10200	10900	5670	5130	3050	2730	3650	4120	1940
23	1030	1120	2230	9200	10500	5630	5090	3220	2700	3830	3860	1840
24	1030	1110	2140	8300	10400	5720	5130	3330	2670	4140	3540	1770
25	1060	1110	2080	7210	10200	5960	5310	3510	2790	4530	3180	1730
26	1080	1120	2000	6280	10100	6130	6230	3740	2880	4360	2930	1720
27	1110	1130	1950	5790	10100	6160	6920	4030	3240	3890	2680	1670
28	1150	1150	1910	5670	10100	6040	7510	4520	3480	3450	2470	1620
29	1200	1180	2140	5710	---	5820	8120	5110	4510	3170	2310	1570
30	1310	1210	2690	5740	---	5570	8760	5360	4280	3300	2150	1540
31	1460	---	3180	5750	---	5250	---	5670	---	3490	2030	---
TOTAL	33011	36220	54050	297610	334720	209770	199370	189000	136000	100230	103170	59110
MEAN	1065	1207	1744	9600	11950	6767	6646	6097	4533	3233	3328	1970
MAX	1460	1530	3180	17500	24200	9760	10400	11700	7370	4530	5100	2570
MIN	951	1110	1240	3890	5190	5250	4280	2980	2670	2240	2030	1540
CFSM	.21	.23	.34	1.85	2.31	1.31	1.28	1.18	.88	.62	.64	.38
IN.	.24	.26	.39	2.14	2.40	1.51	1.43	1.36	.98	.72	.74	.42

CAL YR 1981 TOTAL 937491 MEAN 2568 MAX 17600 MIN 951 CFSM .50 IN 6.73
WTR YR 1982 TOTAL 1752261 MEAN 4801 MAX 24200 MIN 951 CFSM .93 IN 12.58

02215500 OCMULGEE RIVER AT LUMBER CITY, GA.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.—February 1968 to current year.

REMARKS.—Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, Dissolved Oxygen, and Specific Conductance by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	TEMPER-ATURE, AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT										
22...	1035	1040	--	166	7.7	7.8	16.0	25.5	9.0	91
NOV										
24...	1345	1110	--	175	7.4	7.7	10.0	20.0	11.6	104
DEC										
10...	1210	1450	--	148	--	7.8	8.0	3.5	12.0	102
JAN										
21...	1110	11500	--	66	--	6.7	6.0	20.0	10.4	84
FEB										
18...	1150	18900	--	58	6.6	6.7	13.0	15.0	7.8	75
MAR										
18...	1235	6850	--	83	--	7.3	19.0	29.5	6.7	73
APR										
22...	1115	5130	94	91	6.9	7.1	20.5	24.0	7.3	81
MAY										
20...	1110	2970	114	117	7.2	7.4	24.5	28.0	7.1	86
JUN										
23...	1115	2700	121	120	7.2	7.5	27.0	30.0	6.8	86
JUL										
28...	0650	3430	--	99	7.0	7.3	30.0	25.0	5.9	78
AUG										
19...	0830	4290	--	87	7.1	7.0	26.0	24.0	6.2	76
SEP										
14...	0925	2160	--	106	7.2	7.4	26.0	25.0	6.1	75

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT										
22...	20	5	.4	<30	58	8	.50	.040	.100	3.0
NOV										
24...	20	5	.3	<30	78	5	.50	.040	.080	8.0
DEC										
10...	30	6	.9	<30	45	6	.42	.040	.110	4.8
JAN										
21...	120	27	.7	50	12	9	.38	.020	.040	6.0
FEB										
18...	200	21	.3	20	12	3	.12	.040	.040	6.0
MAR										
18...	80	13	.2	20	22	8	.24	.030	.060	8.0
APR										
22...	50	11	.6	20	28	17	.44	.050	.100	5.0
MAY										
20...	45	16	.5	<20	36	20	.44	.040	.090	4.0
JUN										
23...	40	14	.4	50	41	22	.50	.040	.080	4.5
JUL										
28...	100	15	1.6	20	33	34	.39	<.020	.100	--
AUG										
19...	80	18	1.9	2300	22	30	.48	.050	.120	5.0
SEP										
14...	60	10	.6	--	39	9	.38	.060	.090	7.0

02216100 ALLIGATOR CREEK NEAR ALAMO, GA.

LOCATION.--Lat 32°01'35", long 82°41'44", Wheeler County, Hydrologic Unit 03070105, at bridge on State Route 134, 1.7 mi (2.7 km) west of Jordan, 6.5 mi (10.5 km) upstream of Little Ocmulgee River, and 9.5 mi (15.3 km) southeast of Alamo.
DRAINAGE AREA.--255 mi^2 (660 km^2).
PERIOD OF RECORD.--July 1979 to June 1982 (discontinued).
REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, Dissolved Oxygen, and Specific Conductance by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE (DEG C)	TEMPERATURE, AIR (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT										
22...	0955	2.5	--	33	6.2	6.6	13.0	21.0	8.1	77
NOV										
24...	1300	2.5	--	33	--	6.6	9.5	19.0	11.1	99
DEC										
10...	1140	2.5	--	34	--	6.7	7.0	3.0	11.9	99
JAN										
21...	1040	580	--	45	5.1	5.1	9.0	18.5	9.5	83
FEB										
18...	1115	800	--	41	5.4	5.2	14.0	14.5	7.6	74
MAR										
18...	1145	190	--	38	5.4	5.5	19.0	28.0	5.6	61
APR										
22...	1050	185	39	36	5.5	5.5	18.0	26.5	7.8	83
MAY										
20...	1020	18	39	39	5.9	6.1	20.5	26.5	7.7	86
JUN										
23...	1020	150	42	44	5.6	5.7	23.5	29.0	6.4	76

DATE	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	ALKALINITY LAB (MG/L AS CACO3)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT									
22...	5	2	.8	40	9.0	<.02	<.020	<.020	3.5
NOV									
24...	20	5	.7	90	8.0	<.02	.020	<.020	4.2
DEC									
10...	20	6	.9	40	9.0	<.02	<.020	<.020	2.6
JAN									
21...	60	10	.8	80	2.0	.19	.020	<.020	10
FEB									
18...	100	4	.3	20	3.0	<.02	.020	<.020	13
MAR									
18...	70	8	.8	140	2.0	<.02	.080	<.020	18
APR									
22...	90	8	.5	20	3.0	.03	.180	.040	16
MAY									
20...	90	10	.5	20	5.0	.04	.040	.020	14
JUN									
23...	120	7	.9	170	6.0	.07	.100	.040	21

02216610 TILLMAN MILL CREEK NEAR LUMBER CITY, GA.

LOCATION.--Lat 31°58'53", long 82°38'32", Wheeler County, Hydrologic Unit 03070104, on right bank 18 ft (5.5 m) upstream from culvert on State Highway 19, 4.3 mi (6.9 km) northeast of Lumber City, and 4.7 mi (7.6 km) upstream from mouth.

DRAINAGE AREA.—2.71 mi^2 (7.02 km^2).

PERIOD OF RECORD.--Annual maximum, water years 1966-74, October 1974 to current year. Records for the 1975 water year are unreliable and should not be used. Prior to October 1975, published as Ocmulgee River Tributary near Lumber City.

GAGE.—Water-stage recorder. Altitude of gage is 168 ft (51 m), from topographic map. August 27, 1965, to September 30, 1974, crest-stage gage at same site and at datum 2.00 ft (0.610 m) lower.

REMARKS.--Records fair.

AVERAGE DISCHARGE.—7 years (1976-82), 2.09 ft^3/s (0.059 m^3/s), 10.47 in/yr (266 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,070 ft^3/s (30.3 m^3/s) May 23, 1973, gage height, 9.59 ft (2.923 m), present datum, from floodmarks; no flow at times most years.

EXTREMES FOR CURRENT YEAR.—Peak discharge above base of 100 ft^3/s (2.83 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 12	2045	*184	5.21	4.79	1.460

Minimum discharge, no flow on many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	4.3	2.5	2.0	.76	.77	5.3	.86	5.0	.00
2	.00	.00	.00	1.8	1.7	1.9	.61	.63	7.4	.53	10	.00
3	.00	.00	.00	1.5	5.8	1.8	2.9	.52	1.5	.39	3.1	.00
4	.00	.00	.00	2.0	5.0	1.7	2.0	.44	2.6	.29	1.5	.02
5	.00	.00	.00	1.7	2.1	1.7	3.3	.38	26	.60	.99	1.1
6	.00	.00	.00	1.4	1.7	4.3	11	.27	3.3	2.6	1.1	.25
7	.00	.00	.00	1.6	1.5	4.9	2.1	.22	1.3	6.0	.87	.05
8	.00	.00	.00	3.3	1.4	2.9	3.2	.22	.95	5.4	1.5	.00
9	.00	.00	.00	1.9	2.4	1.7	4.5	.18	.63	3.4	1.0	.01
10	.00	.00	.00	1.5	3.6	1.6	2.0	.13	.35	4.3	1.9	.35
11	.00	.00	.00	1.4	1.9	1.5	1.4	.07	.23	26	1.7	1.7
12	.00	.00	.00	1.4	38	1.4	1.1	.01	.19	8.0	.78	6.8
13	.00	.00	.03	5.7	25	1.4	.91	.00	1.9	4.9	.50	1.1
14	.00	.00	.58	10	6.1	1.3	.84	.00	1.0	4.3	.48	.44
15	.00	.00	3.1	3.8	5.0	1.3	.70	.00	.38	16	.45	.23
16	.00	.00	2.1	2.4	5.2	1.3	.64	.00	.23	17	.47	.11
17	.00	.00	1.3	2.1	9.9	1.3	.63	.00	.71	7.2	.58	.04
18	.00	.00	1.3	1.9	5.1	1.4	.68	.00	2.9	3.6	.44	.04
19	.00	.00	1.2	1.9	4.1	1.2	.75	.00	1.0	2.5	2.3	.11
20	.00	.00	1.0	1.8	3.6	1.1	1.2	.00	.35	1.9	4.3	.13
21	.00	.00	.94	1.8	3.0	.94	1.0	.00	.21	1.4	.98	1.8
22	.00	.00	.96	1.7	2.6	.88	.75	.00	.31	13	.49	.99
23	.00	.00	.97	1.9	2.3	1.1	.57	.00	.40	26	.43	.32
24	.00	.00	1.4	2.5	2.2	2.5	.62	.00	3.9	16	.32	.17
25	.00	.00	2.1	1.7	2.1	3.2	10	3.8	.76	7.5	.17	.10
26	.00	.00	2.0	1.5	2.0	1.5	14	7.5	.36	4.4	.06	.08
27	.00	.00	1.6	1.4	2.1	1.1	2.3	6.2	1.6	4.1	.01	.07
28	.00	.00	1.5	1.4	2.2	.92	1.3	1.2	3.6	3.7	.13	.03
29	.00	.00	2.5	1.5	---	.88	1.1	.48	17	3.3	.46	.00
30	.00	.00	1.8	1.5	---	.90	.90	.35	1.8	3.2	.23	.00
31	.00	---	6.7	1.6	---	.85	---	14	---	2.0	.07	---
TOTAL	.00	.00	33.08	71.9	150.1	52.47	73.76	37.37	88.16	200.37	42.31	16.04
MEAN	.000	.000	1.07	2.32	5.36	1.69	2.46	1.21	2.94	6.46	1.36	.53
MAX	.00	.00	6.7	10	38	4.9	14	14	26	26	10	6.8
MIN	.00	.00	.00	1.4	1.4	.85	.57	.00	.19	.29	.01	.00
CFSM	.000	.000	.40	.86	1.98	.62	.91	.45	1.09	2.38	.50	.20
IN.	.00	.00	.45	.99	2.06	.72	1.01	.51	1.21	2.75	.58	.22

CAL YR 1981 TOTAL 287.53 MEAN .79 MAX 98 MIN .00 CFSM .29 IN 3.95
WTR YR 1982 TOTAL 765.56 MEAN 2.10 MAX 38 MIN .00 CFSM .78 IN 10.50

02217500 MIDDLE OCONEE RIVER NEAR ATHENS, GA.

LOCATION.--Lat 33°56'48", long 83°25'22", Clarke County, Hydrologic Unit 03070101, on left bank 0.5 mi (0.8 km) upstream from U.S. Highway 29, 2 mi (3.2 km) west of Athens, and 5 mi (8.0 km) upstream from Barber Creek.

DRAINAGE AREA.--398 mi^2 (1,030 km^2).

PERIOD OF RECORD.--October 1901 to October 1902, January 1929 to March 1932, April 1937 to current year. Monthly discharge only for some periods, published in WSP 1304.

GAGE.--Water-stage recorder. Datum of gage is 555.66 ft (169.365 m) National Geodetic Vertical Datum of 1929. Oct. 11, 1901, to Oct. 25, 1902, nonrecording gage at site 1 mi (1.6 km) upstream at different datum. Jan. 16, 1929, to Mar. 15, 1932, and Apr. 29, 1937, to Sept. 30, 1940, water-stage recorder at site 4 mi (6.4 km) downstream at different datum.

REMARKS.--Records good. Records of chemical analyses for the water years 1968-74 are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--48 years, 525 ft^3/s (14.87 m^3/s), 17.91 in/yr (455 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 19,600 ft^3/s (555 m^3/s) Feb. 28, 1902, gage height, 25.5 ft (7.772 m), site and datum then in use; minimum daily, 26 ft^3/s (0.74 m^3/s) Sept. 7, 1957.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,800 ft^3/s (108 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 5	1600	*8290	235	16.05	4.892	Feb. 4	2230	7110	201	14.65	4.465

Minimum discharge, 36 ft^3/s (1.02 m^3/s) Oct. 4, gage height, 0.64 ft (0.195 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	118	372	2020	474	724	365	587	371	217	186	163
2	45	116	515	1940	487	662	355	546	417	196	187	240
3	40	115	336	1410	3720	587	360	517	318	186	168	305
4	37	116	246	4170	5520	531	411	489	330	176	147	266
5	39	120	207	7550	4640	497	460	468	450	176	140	192
6	41	119	181	3920	1440	477	761	448	363	176	147	165
7	43	116	169	1270	998	726	578	433	292	176	147	153
8	40	113	162	959	802	1120	508	443	263	169	141	147
9	39	109	158	797	707	787	925	443	250	176	143	143
10	55	113	149	662	708	624	890	399	237	214	687	139
11	70	117	145	534	635	563	636	380	226	217	1850	172
12	87	117	143	501	575	530	552	365	221	199	1740	216
13	79	117	142	488	557	499	509	351	245	179	691	209
14	70	118	209	460	528	479	494	339	285	166	399	259
15	68	116	478	450	493	526	710	330	242	186	325	343
16	66	115	437	411	531	683	642	316	224	232	278	233
17	67	117	317	406	903	638	626	307	230	350	361	189
18	68	117	258	377	940	690	791	305	226	323	315	176
19	69	116	221	373	712	647	656	342	213	244	304	162
20	72	118	192	418	600	574	626	355	199	226	249	155
21	73	136	173	501	540	532	649	325	187	196	224	152
22	76	142	221	546	504	504	576	315	273	177	203	145
23	81	122	222	529	475	477	522	312	393	174	190	139
24	89	136	216	618	456	457	487	363	288	195	188	137
25	120	160	448	546	440	455	666	364	228	214	179	139
26	236	151	814	483	430	447	1930	337	210	188	171	144
27	323	136	511	439	547	424	1800	328	206	167	165	153
28	214	150	395	406	748	401	1100	310	256	167	161	162
29	156	175	373	388	---	391	791	339	279	162	160	156
30	133	182	329	375	---	385	658	289	240	158	155	145
31	122	---	1020	387	---	375	---	268	---	168	149	---
TOTAL	2763	3813	9759	34334	30110	17412	21034	11713	8162	6150	10550	5499
MEAN	89.1	127	315	1108	1075	562	701	378	272	198	340	183
MAX	323	182	1020	7550	5520	1120	1930	587	450	350	1850	343
MIN	37	109	142	373	430	375	355	268	187	158	140	137
CFSM	.22	.32	.79	2.78	2.70	1.41	1.76	.95	.68	.50	.85	.46
IN.	.26	.36	.91	3.21	2.81	1.63	1.97	1.09	.76	.57	.99	.51

CAL YR 1981 TOTAL 92176 MEAN 253 MAX 3260 MIN 37 CFSM .64 IN 8.62
WTR YR 1982 TOTAL 161299 MEAN 442 MAX 7550 MIN 37 CFSM 1.11 IN 15.08

02217740 NORTH OCONEE RIVER ABOVE ATHENS, GA.

LOCATION.—Lat 33°58'28", long 83°22'56", Clarke County, Hydrologic Unit 03070101, at city of Athens water works intake, 0.3 mi (0.5 km) north of Athens city limit.

PERIOD OF RECORD.—July 1974 to current year.

REMARKS.—Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, Dissolved Oxygen, and Specific Conductance by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	TEMPER-ATURE, AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT										
21...	0900	63	73	71	7.3	7.3	10.5	12.0	9.6	86
NOV										
17...	1525	90	--	66	7.2	7.3	11.0	16.0	9.4	--
DEC										
15...	1645	450	--	54	7.0	6.9	6.0	5.5	10.9	89
JAN										
20...	0915	350	--	50	6.9	7.0	3.0	10.0	11.8	88
FEB										
10...	1610	750	41	41	6.8	6.8	7.5	16.0	9.9	83
MAR										
18...	1400	480	50	50	6.7	6.9	14.0	26.5	9.4	92
APR										
22...	0845	405	54	53	7.0	6.9	16.0	19.0	8.4	86
MAY										
10...	1330	275	55	57	7.0	7.1	19.0	24.0	8.6	94
JUN										
15...	1400	160	71	71	--	7.2	23.0	31.0	7.5	90
JUL										
22...	0850	130	60	59	--	7.2	25.5	26.0	6.3	79
AUG										
18...	0800	305	47	48	6.8	6.8	22.5	23.0	6.3	75
SEP										
15...	0645	160	58	57	7.1	7.1	22.0	21.0	7.7	85

DATE	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, CON-FIRMED (MPN)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT									
21...	8	1.1	--	30	29	.04	.030	.030	1.5
NOV									
17...	8	.3	930	70	26	.16	.060	.020	2.0
DEC									
15...	20	2.0	15000	930	16	.34	.060	.100	4.5
JAN									
20...	30	1.1	4900	490	16	.48	.100	.040	1.5
FEB									
10...	56	1.1	3500	220	10	.44	.060	.080	4.0
MAR									
18...	19	.5	4900	2300	17	.33	.020	<.020	1.0
APR									
22...	14	.5	3300	490	19	.28	.030	.040	<1.0
MAY									
10...	11	.6	7900	330	21	.30	.030	.030	2.0
JUN									
15...	17	.7	3300	700	24	.32	.040	.040	2.0
JUL									
22...	15	.8	22000	9400	26	.29	.090	.020	2.5
AUG									
18...	44	1.2	--	--	19	.86	.040	.100	2.0
SEP									
15...	15	1.1	5600	310	23	.22	.080	.070	3.0

02218000 OCONEE RIVER NEAR WATKINSVILLE, GA.

LOCATION.--Lat 33°51'21", long 83°19'35", Oconee-Clarke County line, Hydrologic Unit 03070101, at bridge on Barnett Shoals Road, 1 mi (1.6 km) upstream from Barnett Shoals Dam and 4 mi (6.4 km) east of Watkinsville.
DRAINAGE AREA.--783 mi^2 (2,030 km^2).
PERIOD OF RECORD.--July 1974 to current year.
REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, Dissolved Oxygen, and Specific Conductance by U.S. Geological Survey. Water-discharge records for water years 1901-02 are published in records of the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	TEMPER-ATURE, AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT										
20...	1545	140	100	98	7.3	7.2	15.0	20.0	9.1	90
NOV										
17...	1425	180	--	93	7.0	7.2	12.0	17.0	9.8	--
DEC										
15...	1600	1300	62	62	7.2	6.9	6.5	7.0	11.6	96
JAN										
19...	1730	800	63	62	--	6.8	3.0	8.5	12.5	96
FEB										
10...	1520	1700	49	50	6.9	6.9	8.0	18.0	10.5	89
MAR										
18...	1100	1340	--	57	--	7.0	13.0	24.0	9.8	94
APR										
21...	1845	1280	60	58	7.2	7.1	17.0	16.5	9.0	94
MAY										
10...	1145	780	59	60	7.1	7.2	19.0	23.0	8.8	96
JUN										
15...	1300	470	69	71	7.0	7.2	24.0	32.0	7.1	86
JUL										
22...	0800	320	--	75	6.8	7.2	26.0	23.5	6.4	81
AUG										
17...	1345	960	--	56	7.2	7.1	23.5	28.0	7.7	99
SEP										
14...	1430	310	70	71	7.1	7.2	25.0	35.0	6.6	97

DATE	TUR-BID-ITY (JTU)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT											
20...	6	--	1.2	40	21	<1	1.7	.120	--	.350	2.5
NOV											
17...	--	--	1.6	720	23	--	1.6	.310	--	.270	3.0
DEC											
15...	30	--	3.2	4300	15	58	.60	.180	--	.220	5.5
JAN											
19...	24	--	1.0	460	16	8	.76	.380	--	.140	4.0
FEB											
10...	42	--	1.0	50	12	34	.64	.160	--	.120	2.0
MAR											
18...	28	--	1.0	330	17	31	.56	.120	--	.070	1.0
APR											
21...	17	--	1.5	1700	16	22	.65	.150	--	.100	2.0
MAY											
10...	10	--	.9	3300	12	23	.72	.090	--	.140	4.0
JUN											
15...	14	--	1.0	490	20	21	.94	.060	--	.160	2.0
JUL											
22...	13	7	1.4	11000	20	21	1.2	.330	.60	.200	<1.0
AUG											
17...	66	21	1.5	4900	16	120	.81	.110	.60	.260	4.0
SEP											
14...	15	6	1.0	330	20	20	.86	.160	.40	.150	2.5

02218300 OCONEE RIVER NEAR PENFIELD, GA.

LOCATION.--Lat 33°43'16", long 83°17'44", Greene County, Hydrologic Unit 03070101, on downstream side of bridge on State Highway 15, 7.0 mi (11.2 km) upstream from Greenbrier Creek, 8.0 mi (12.9 km) northwest of Penfield, and 10.0 mi (16.1 km) southeast of Watkinsville.

DRAINAGE AREA.--940 mi^2 (2,430 km^2).

PERIOD OF RECORD.--Water years 1970-77 (annual maximum), August 1977 to current year.

GAGE.--Water-stage recorder. Datum of gage is 433.26 ft (132.058 m), National Geodetic Vertical Datum of 1929. Nov. 4, 1969 to July 21, 1977, crest-stage gage at same site and datum.

REMARKS.--Records good. Some regulation at low flow from manipulation of Barnett Shoals Dam.

AVERAGE DISCHARGE.--5 years, 1,267 ft^3/s (35.88 m^3/s), 18.30 in/yr (465 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 19,700 ft^3/s (558 m^3/s) Mar. 16, 1976, gage height, 22.11 ft (6.739 m); minimum daily discharge, 101 ft^3/s (2.86 m^3/s) Oct. 8, 1981.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 6, 1936, reached a stage of 26.7 ft (8.14 m), discharge, 41,500 ft^3/s (1,180 m^3/s), from rating curve extended above 21,000 ft^3/s (595 m^3/s) on basis of computation of flow over Barnett Shoals Dam located 10 mi (16.1 km) upstream.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 4,600 ft^3/s (130 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 1	1500	6020	170	13.53	4.124	Feb. 4	0500	13200	374	18.77	5.721
Jan. 6	1100	*13700	388	19.03	5.800	Apr. 27	2000	4920	139	12.28	3.743

Minimum daily discharge, 101 ft^3/s (2.86 m^3/s) Oct. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	121	270	800	5530	1250	2020	907	1490	970	602	773	353
2	115	262	1150	4820	1410	1830	886	1330	1120	550	569	566
3	105	259	976	4000	6200	1600	893	1230	936	507	487	612
4	105	258	674	5740	12300	1410	922	1140	1000	478	426	575
5	108	258	518	10700	11500	1280	1140	1070	1320	467	381	473
6	116	261	445	13200	9290	1190	1580	1010	1090	459	453	395
7	108	258	404	8410	4140	1610	1540	965	854	453	423	357
8	101	250	381	3080	2330	2160	1330	977	718	471	422	374
9	117	245	366	2020	1960	2130	1910	995	652	462	403	397
10	129	244	350	1640	1950	1700	2130	923	621	549	476	310
11	157	246	375	1350	1760	1440	1820	854	591	586	2230	320
12	178	248	439	1130	1560	1330	1460	809	578	532	3000	497
13	188	246	446	1110	1530	1250	1300	764	626	495	2120	520
14	178	252	605	1120	1430	1190	1270	732	659	530	1080	491
15	164	252	1120	1080	1340	1200	1450	708	651	701	772	593
16	170	256	1200	1040	1590	1580	1980	692	593	984	650	537
17	160	262	909	1020	3930	1650	1600	669	666	929	802	457
18	157	258	698	975	2920	1630	1800	704	627	958	1460	414
19	167	255	588	942	2380	1620	1740	679	587	726	1030	438
20	156	274	515	1010	1840	1490	1630	742	550	608	711	379
21	163	269	475	1170	1580	1340	1620	714	523	544	592	374
22	175	291	464	1320	1410	1260	1510	756	542	489	521	367
23	168	279	519	1390	1270	1180	1350	1170	1000	450	483	359
24	180	295	533	1610	1160	1170	1240	1130	877	440	453	357
25	228	320	1210	1520	1100	1200	1320	1000	666	501	433	366
26	410	338	1730	1310	1060	1190	3090	1140	583	499	412	384
27	574	317	1500	1130	1400	1140	4460	891	553	492	397	402
28	570	312	1120	1010	2120	1090	3980	797	636	462	384	410
29	423	329	1030	947	---	1060	2520	762	789	413	371	448
30	333	380	898	936	---	981	1800	794	686	414	359	423
31	292	---	1750	1010	---	925	---	754	---	527	352	---
TOTAL	6316	8244	24188	83270	83710	43846	52178	28391	22264	17278	23425	12948
MEAN	204	275	780	2686	2990	1414	1739	916	742	557	756	432
MAX	574	380	1750	13200	12300	2160	4460	1490	1320	984	3000	612
MIN	101	244	350	936	1060	925	886	669	523	413	352	310
CFSM	.22	.29	.83	2.86	3.18	1.50	1.85	.97	.79	.59	.80	.46
IN.	.25	.33	.96	3.30	3.31	1.74	2.06	1.12	.88	.68	.93	.51

CAL YR 1981 TOTAL 223856 MEAN 613 MAX 7620 MIN 101 CFSM .65 IN 8.86
WTR YR 1982 TOTAL 406058 MEAN 1112 MAX 13200 MIN 101 CFSM 1.18 IN 16.07

02218500 OCONEE RIVER NEAR GREENSBORO, GA.

LOCATION.--Lat 33°34'52", long 83°16'22", Greene County, Hydrologic Unit 03070101, on right bank 300 ft (91 m) downstream from bridge on State Highway 12, 1 mi (1.6 km) downstream from Town Creek, 5 mi (8.0 km) upstream from Apalachee River, 5 mi (8.0 km) west of Greensboro, and 12 mi (19.3 km) downstream from Barnett Shoals Dam.

DRAINAGE AREA.--1,090 mi^2 (2,820 km^2), approximately.

PERIOD OF RECORD.--November 1969 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Air Temperature, Water Temperature, pH, Dissolved Oxygen, and Specific Conductance by U.S. Geological Survey. Water-discharge records for water years 1903-32, 1936-78 are published in records of the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
DEC									
15...	1445	75	82	7.3	7.2	5.0	8.5	11.3	90
MAR									
17...	1715	60	57	6.8	7.0	15.5	20.0	8.7	87
JUN									
15...	1200	63	64	7.6	7.3	29.0	32.0	9.0	119
SEP									
14...	1315	72	69	7.6	7.8	25.5	33.0	6.0	83

DATE	TUR- BID- ITY (JTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY LAB (MG/L AS CACO3)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
DEC								
15...	7	1.5	40	21	.94	.360	.140	2.7
MAR								
17...	24	1.0	80	18	.48	.040	.050	2.0
JUN								
15...	9	2.9	170	20	.31	.090	.060	4.0
SEP								
14...	10	3.0	20	22	.20	.060	.090	4.5

02219000 APALACHEE RIVER NEAR BOSTWICK, GA.

LOCATION.--Lat 33°47'17", long 83°28'27", Morgan-Oconee County line, Hydrologic Unit 03070101, on left bank 1,000 ft (305 m) upstream from bridge on Price Mill Road, 3.0 mi (4.8 km) southwest of Bishop, 4.0 mi (6.4 km) upstream from Jacks Creek, and 4.0 mi (6.4 km) northeast of Bostwick.

DRAINAGE AREA.--176 mi^2 (456 km^2).

PERIOD OF RECORD.--June 1944 to December 1949, April 1977 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 535 ft (163 m), from topographic map.

REMARKS.--Records good. Some regulation at low flow from manipulation of High Shoals Dam.

AVERAGE DISCHARGE.--10 years (water years 1945-49, 1978-82), 255 ft^3/s (7.222 m^3/s), 19.68 in/yr (500 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,500 ft^3/s (241 m^3/s) Jan. 6, 1946, gage height, 8.9 ft (2.71 m); minimum daily discharge, 14 ft^3/s (0.40 m^3/s) Sept. 29 to Oct. 1, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,200 ft^3/s (62.3 m^3/s) and maximum (*):

		Discharge		Gage height				Discharge		Gage height	
Date	Time	(ft^3/s)	(m^3/s)	(ft)	(m)	Date	Time	(ft^3/s)	(m^3/s)	(ft)	(m)
Jan. 4	0800	3000	85.0	5.00	1.524	Feb. 3	0800	*5110	145	6.16	1.878

Minimum daily discharge, 14 ft^3/s (0.40 m^3/s) Oct. 1.

DISCHARGE. IN CUBIC FEET PER SECOND. WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	49	132	1280	235	337	164	261	409	110	225	79
2	15	47	179	645	252	293	160	239	295	100	173	133
3	16	46	142	515	3320	257	161	224	208	93	127	170
4	16	46	98	2050	2390	234	164	212	392	88	106	211
5	18	47	82	2280	1230	219	238	198	469	88	95	157
6	18	48	73	1200	521	205	361	186	295	85	95	113
7	17	46	68	476	376	332	288	181	206	83	95	99
8	17	45	65	334	302	384	274	191	163	100	92	91
9	17	44	63	264	278	312	442	193	146	100	96	86
10	23	44	60	223	295	248	359	171	132	105	115	84
11	30	45	58	177	264	221	274	155	121	251	529	99
12	31	46	58	176	238	209	231	150	116	138	600	121
13	27	46	57	188	237	202	210	141	131	107	517	111
14	25	46	94	185	222	194	238	135	136	95	269	202
15	24	47	183	181	209	224	336	128	122	97	198	257
16	24	48	184	175	279	344	324	122	111	191	167	160
17	25	49	130	185	649	299	268	120	127	246	154	123
18	25	49	105	175	448	306	308	152	113	189	164	110
19	25	49	93	175	338	288	285	152	107	141	177	105
20	24	51	80	187	277	247	277	159	99	129	141	100
21	24	51	71	239	244	223	292	220	93	110	123	94
22	25	51	87	268	221	215	254	187	99	97	114	88
23	28	50	87	264	206	203	220	161	151	91	105	83
24	31	56	88	300	196	190	200	155	148	106	99	81
25	44	63	264	273	188	187	334	143	115	114	94	80
26	64	64	320	227	190	228	1010	158	104	106	90	82
27	84	60	240	201	290	219	921	156	102	96	86	92
28	85	61	174	184	389	185	508	152	122	98	84	90
29	68	62	190	175	---	172	375	149	151	100	84	86
30	58	73	180	170	---	170	304	138	126	98	81	82
31	51	---	734	181	---	168	---	508	---	147	80	---
TOTAL	993	1529	4439	13553	14284	7515	9780	5597	5109	3699	5175	3469
MEAN	32.0	51.0	143	437	510	242	326	181	170	119	167	116
MAX	85	73	734	2280	3320	384	1010	508	469	251	600	257
MIN	14	44	57	170	188	168	160	120	93	83	80	79
CFSM	.18	.29	.81	2.48	2.90	1.38	1.85	1.03	.97	.68	.95	.66
IN.	.21	.32	.94	2.86	3.02	1.59	2.07	1.18	1.08	.78	1.09	.73

CAL YR 1981 TOTAL 38322 MEAN 105 MAX 2200 MIN 14 CFSM .60 IN 8.10
WTR YR 1982 TOTAL 75142 MEAN 206 MAX 3320 MIN 14 CFSM 1.17 IN 15.88

02220550 WHITTEN CREEK NEAR SPARTA, GA.

LOCATION.--Lat 33°23'13", long 83°01'29", Hancock County, Hydrologic Unit 03070101, in right bank 100 ft (30 m) upstream from bridge on State Highway 15, 5 mi (8.0 km) upstream from mouth, and 8.5 mi (13.7 km) northwest of Sparta.
DRAINAGE AREA.--15 mi^2 (39 km^2), approximately.
PERIOD OF RECORD.--June 1960 to current year.
GAGE.--Water-stage recorder. Altitude of gage is 395 ft (120 m), from topographic map. Prior to Aug. 17, 1963, water-stage recorder at site 100 ft (30 m) downstream at same datum.
REMARKS.--Records fair.
AVERAGE DISCHARGE.--22 years, 15.6 ft^3/s (0.442 m^3/s), 14.12 in/yr (359 mm/yr).
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,770 ft^3/s (107 m^3/s) Feb. 24, 1961, gage height, 16.0 ft (4.88 m), at former site; minimum daily discharge, no flow Oct. 1-9, 1981.
EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 600 ft^3/s (17.0 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Dec. 31	1700	*808	22.9	10.39	3.167	Feb. 3.	1300	770	21.8	10.24	3.121

Minimum daily discharge, no flow Oct. 1-9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.92	1.7	81	16	8.2	6.5	11	3.4	2.0	2.3	.29
2	.00	.90	1.3	24	12	7.4	6.1	9.4	3.1	1.9	1.9	.31
3	.00	.88	.92	27	296	7.0	6.1	8.5	2.9	1.9	1.6	.30
4	.00	.84	.88	230	74	6.5	5.9	7.5	4.7	1.8	1.7	.37
5	.00	.80	.90	36	29	6.2	8.3	6.8	5.2	1.7	1.6	.27
6	.00	.82	.90	18	19	6.2	12	6.2	3.2	1.6	1.6	.24
7	.00	.88	.92	13	14	24	7.9	5.8	2.9	1.9	1.6	.21
8	.00	.84	.90	10	12	17	8.5	5.8	2.7	2.5	1.7	.20
9	.00	.80	.88	8.5	11	12	14	5.2	2.6	2.9	1.5	.18
10	.15	.88	.86	7.6	11	10	9.4	4.6	2.5	3.6	1.5	.22
11	.18	.88	.86	8.2	9.6	9.5	8.1	4.3	2.4	2.5	2.0	.55
12	.11	.90	.90	7.1	9.4	8.7	7.6	3.9	6.9	2.3	1.9	.70
13	.07	.86	1.0	6.7	14	8.1	7.1	3.6	14	2.0	1.6	.52
14	.09	.82	2.5	9.0	12	7.5	6.7	3.6	5.0	2.5	1.6	.45
15	.12	.84	29	8.5	9.7	7.2	10	3.4	3.5	2.3	1.5	.36
16	.13	.84	13	11	61	11	11	3.4	3.0	6.7	1.3	.30
17	.13	.92	5.8	15	161	48	8.0	3.3	3.6	5.4	1.3	.22
18	.13	.90	4.0	12	38	50	9.1	3.2	2.9	2.9	1.6	.19
19	.13	.88	3.2	11	22	25	7.5	3.3	2.5	2.4	2.6	.18
20	.12	.90	3.0	11	17	18	15	3.2	2.2	2.1	.82	.23
21	.13	.87	3.2	10	14	14	13	3.2	2.1	2.0	.64	.20
22	.18	.88	3.1	8.8	12	12	8.9	3.1	2.6	1.8	.52	.14
23	.29	.90	3.0	11	10	9.9	7.7	3.0	2.7	3.3	.46	.11
24	.58	1.2	3.4	18	9.4	9.3	7.0	3.4	2.3	2.0	.40	.10
25	5.8	1.3	101	12	8.3	9.4	50	3.1	2.1	2.0	.40	.11
26	3.6	1.0	25	10	7.7	8.3	65	3.5	2.0	1.8	.38	.13
27	2.0	1.0	21	8.8	9.2	7.7	50	4.0	2.4	1.8	.35	.17
28	1.2	1.2	17	8.0	9.9	7.6	25	4.5	2.7	1.7	.35	.18
29	1.1	1.2	21	7.1	---	7.3	17	3.5	2.4	1.6	.32	.14
30	1.0	1.3	12	6.9	---	7.2	13	3.7	2.2	1.5	.32	.11
31	.95	---	302	8.0	---	6.5	---	5.6	---	1.7	.30	---
TOTAL	18.19	28.15	585.12	663.2	928.2	396.7	431.4	146.6	102.7	74.1	37.66	7.68
MEAN	.59	.94	18.9	21.4	33.2	12.8	14.4	4.73	3.42	2.39	1.21	.26
MAX	5.8	1.3	302	230	296	50	65	11	14	6.7	2.6	.70
MIN	.00	.80	.86	6.7	7.7	6.2	5.9	3.0	2.0	1.5	.30	.10
CFSM	.04	.06	1.26	1.43	2.21	.85	.96	.32	.23	.16	.08	.02
IN.	.05	.07	1.45	1.64	2.30	.98	1.07	.36	.25	.18	.09	.02

CAL YR 1981 TOTAL 3681.10 MEAN 10.1 MAX 975 MIN .00 CFSM .67 IN 9.13
WTR YR 1982 TOTAL 3419.70 MEAN 9.37 MAX 302 MIN .00 CFSM .63 IN 8.48

02220900 LITTLE RIVER NEAR EATONTON, GA.

LOCATION.--Lat 33°18'50", long 83°26'14", Putnam County, Hydrologic Unit 03070101, on downstream side of bridge on State Highway 16, 0.9 mi (1.4 km) downstream from Glady Creek, and 3.0 mi (4.8 km) west of Eatonton.

DRAINAGE AREA.--262 mi^2 (679 km^2).

PERIOD OF RECORD.--Water years 1971-77 (annual maximum), August 1977 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 370 ft (113 m), from topographic map. Feb. 19, 1970 to Aug. 1, 1977, crest-stage gage at same site and datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--5 years, 219 ft^3/s (6.202 m^3/s), 11.35 in/yr (288 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,600 ft^3/s (357 m^3/s) Mar. 3, 1971, gage height, 24.4 ft (7.44 m); minimum daily discharge, 6.7 ft^3/s (0.19 m^3/s) July 28, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,000 ft^3/s (56.6 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Date	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Dec. 31	1800	2540	71.9	10.42	3.176	Feb. 4	1600	*5590	158	17.03	5.191

Minimum daily discharge, 9.8 ft^3/s (0.28 m^3/s) Oct. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	31	83	1810	260	375	173	283	244	98	97	43
2	13	31	196	1390	303	289	167	250	267	80	107	47
3	12	31	191	609	2420	254	174	228	190	72	82	57
4	11	31	111	1090	5140	234	186	210	145	66	66	56
5	11	33	80	1100	2560	221	201	194	181	76	58	48
6	11	44	66	803	826	214	415	181	171	130	54	43
7	10	44	59	400	576	355	353	172	132	92	54	39
8	10	39	55	313	433	488	256	188	109	85	54	37
9	9.8	36	53	255	360	366	284	184	96	78	57	36
10	19	34	51	217	351	293	304	160	89	140	57	37
11	25	34	49	177	360	259	239	146	83	145	163	48
12	29	34	47	164	308	259	208	137	83	100	412	64
13	29	35	47	180	321	234	190	129	127	82	617	86
14	24	35	83	214	317	211	183	122	118	72	364	73
15	20	35	356	223	280	211	203	119	100	77	174	62
16	19	35	374	241	302	338	391	117	91	113	122	53
17	19	37	229	292	1730	302	249	130	86	118	128	47
18	18	40	147	265	1490	565	252	173	87	108	151	42
19	17	39	113	246	730	838	235	168	90	84	148	43
20	17	39	92	266	451	456	335	138	83	74	114	58
21	17	43	83	258	356	311	405	124	76	78	92	39
22	17	47	88	236	304	242	303	123	78	72	80	35
23	19	44	95	230	267	211	242	115	89	100	71	33
24	22	44	99	372	247	196	211	802	91	125	63	32
25	37	49	828	348	231	203	395	733	78	88	58	32
26	83	53	925	267	218	226	854	722	71	84	54	32
27	89	51	693	221	246	218	1080	390	73	75	52	41
28	69	47	368	196	340	211	872	236	152	77	50	47
29	50	48	318	184	---	188	490	187	130	65	47	42
30	38	54	278	175	---	176	345	162	125	67	45	37
31	33	---	1230	178	---	175	---	155	---	80	44	---
TOTAL	810.8	1197	7487	12920	21727	9119	10195	7178	3535	2801	3735	1389
MEAN	26.2	39.9	242	417	776	294	340	232	118	90.4	120	46.3
MAX	89	54	1230	1810	5140	838	1080	802	267	145	617	86
MIN	9.8	31	47	164	218	175	167	115	71	65	44	32
CFSM	.10	.15	.92	1.59	2.96	1.12	1.30	.89	.45	.35	.46	.18
IN.	.12	.17	1.06	1.83	3.08	1.29	1.45	1.02	.50	.40	.53	.20

CAL YR 1981 TOTAL 51876.3 MEAN 142 MAX 5160 MIN 6.7 CFSM .54 IN 7.37
WTR YR 1982 TOTAL 82093.8 MEAN 225 MAX 5140 MIN 9.8 CFSM .86 IN 11.66

02221525 MURDER CREEK BELOW EATONTON, GA.

LOCATION.--Lat 33°15'08", long 83°28'53", Putnam County, Hydrologic Unit 03070101, in left bank 250 ft (76 m) upstream from bridge on county road S-777, 3.0 mi (4.8 km) downstream from Beaverdam Creek, 5.8 mi (9.3 km) upstream from mouth, and 7.5 mi (12.1 km) southwest of Eatonton.
DRAINAGE AREA.--190 mi^2 (492 km^2).
PERIOD OF RECORD.--April 1977 to current year.
GAGE.--Water-stage recorder. Altitude of gage is 375 ft (114 m), from topographic map.
REMARKS.--Records good. Some diurnal fluctuation at low flow.
AVERAGE DISCHARGE.--5 years, 152 ft^3/s (4.305 m^3/s), 10.86 in/yr (276 mm/yr).
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,270 ft^3/s (178 m^3/s) Feb. 24, 1979, gage height, 9.19 ft (2.801 m); minimum daily discharge, 7.7 ft^3/s (0.22 m^3/s) July 30, 1981.
EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,800 ft^3/s (51.0 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Dec. 31	1715	1820	51.5	4.61	1.405	Feb. 4	1330	*4910	139	7.68	2.341

Minimum daily discharge, 7.9 ft^3/s (0.22 m^3/s) Oct. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.8	22	44	1370	186	162	122	200	120	58	55	32
2	9.4	22	84	859	195	147	118	175	106	50	64	39
3	9.1	23	68	357	1470	136	118	157	89	47	51	54
4	9.1	22	46	801	3980	130	141	144	83	43	42	42
5	8.3	23	39	655	1850	125	138	136	99	49	38	36
6	7.9	24	35	355	532	122	247	126	87	55	37	32
7	8.6	27	34	243	316	225	188	121	74	49	38	29
8	9.1	25	33	209	232	311	158	139	68	59	40	27
9	8.8	25	33	171	195	213	181	146	64	64	44	25
10	16	25	32	146	188	178	159	118	61	172	41	27
11	23	25	31	115	168	164	140	108	57	149	48	41
12	29	26	31	109	150	152	129	103	57	89	167	57
13	16	26	31	131	178	143	122	98	88	66	121	52
14	11	25	53	146	162	139	120	94	92	57	71	42
15	11	26	202	148	144	135	589	91	67	57	58	47
16	11	27	190	168	145	267	265	90	61	61	50	38
17	11	28	100	208	798	259	165	96	59	61	72	33
18	11	28	75	182	1330	244	172	92	60	59	259	30
19	11	28	65	166	482	212	147	94	59	55	102	29
20	11	28	55	174	294	184	389	91	54	48	79	33
21	11	29	46	163	232	167	380	95	50	46	59	28
22	12	29	60	155	192	159	231	91	49	53	51	25
23	13	28	59	149	165	149	180	84	80	46	45	23
24	17	29	59	237	153	141	154	186	65	46	41	22
25	26	31	584	223	144	157	316	173	51	54	38	22
26	64	32	570	180	136	147	739	527	50	51	35	23
27	54	31	281	154	153	131	754	231	62	44	33	26
28	37	31	204	142	181	123	712	140	97	45	31	34
29	27	31	185	134	---	123	364	113	78	41	31	27
30	24	32	155	129	---	125	248	100	67	57	31	24
31	23	---	921	129	---	123	---	195	---	61	30	---
TOTAL	549.1	808	4405	8508	14351	5193	7886	4354	2154	1892	1902	999
MEAN	17.7	26.9	142	274	513	168	263	140	71.8	61.0	61.4	33.3
MAX	64	32	921	1370	3980	311	754	527	120	172	259	57
MIN	7.9	22	31	109	136	122	118	84	49	41	30	22
CFSM	.09	.14	.75	1.44	2.70	.88	1.38	.74	.38	.32	.32	.18
IN.	.11	.16	.86	1.67	2.81	1.02	1.54	.85	.42	.37	.37	.20

CAL YR 1981 TOTAL 34950.2 MEAN 95.8 MAX 3760 MIN 7.7 CFSM .50 IN 6.84
WTR YR 1982 TOTAL 53001.1 MEAN 145 MAX 3980 MIN 7.9 CFSM .76 IN 10.38

02223000 OCONEE RIVER AT MILLEDGEVILLE, GA.

LOCATION.--Lat 33°04'58", long 83°12'51", Baldwin County, Hydrologic Unit 03070101, at right bank on city of Milledgeville water works intake structure at Milledgeville, 0.5 mi (0.8 km) upstream from bridge on State Highway 24, 3.8 mi (6.1 km) downstream from Sinclair Dam of Georgia Power Co., and at mile 139.1 (223.8 km).

DRAINAGE AREA.—2,950 mi^2 (7,640 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—August 1903 to current year. Monthly discharge only for some periods, published in WSP 1304.

REVISED RECORDS.--WSP 1142: 1928(M). WSP 1504: 1903-4, 1908, 1912-13, 1914(M), 1915-17. WSP 1554: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 230.84 ft (70.360 m), National Geodetic Vertical Datum of 1929. Prior to May 23, 1906, Jan. 1 to Oct. 5, 1909, Jan. 1, 1932, to Sept. 30, 1939, nonrecording gages at site 0.5 mi (0.8 km) downstream, and Oct. 1, 1939, to Mar. 8, 1966, water-stage recorder 0.3 mi (0.5 km) downstream, all at present datum. May 23, 1906, to Dec. 31, 1908, and Oct. 6, 1909, to Dec. 31, 1931, nonrecording gages at Fraleys Ferry, 6.8 mi (10.9 km) upstream at different datum.

REMARKS.—Records good. Flow regulated by Lake Oconee since January 1979 and Sinclair Reservoir since November 1952. (See "Lakes and Reservoirs in Altamaha River Basin," stations 02220450 and 02225000.)

AVERAGE DISCHARGE.--79 years, 3,347 ft^3/s (94.79 m^3/s), 15.41 in/yr (391 mm/yr), adjusted.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 122,000 ft^3/s (3,460 m^3/s) Feb. 25, 1961, gage height, 42.9 ft (13.08 m), from rating curve extended above 77,000 ft^3/s (2,180 m^3/s); minimum daily, 90 ft^3/s (2.55 m^3/s) for several days in August and September 1925 and on Aug. 3, 1955.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 46.7 ft (14.23 m) in 1886 at site 0.5 mi (0.8 km) downstream at present datum, from information by Georgia Department of Transportation.

EXTREMES FOR CURRENT YEAR.—Maximum discharge, 35,300 ft^3/s (1,000 m^3/s) Feb. 4, gage height, 27.60 ft (8.412 m); minimum daily discharge, 285 ft^3/s (8.07 m^3/s) Nov. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	565	331	410	18200	3990	4000	4140	7250	2560	1100	903	689
2	489	329	402	13600	4020	3950	3960	6720	2750	1560	850	698
3	570	328	392	11300	13400	5960	3400	2140	2660	1350	886	679
4	531	326	393	15800	29400	6210	1590	1520	2680	1090	855	676
5	552	323	380	16500	24500	6120	1580	2430	2790	1210	740	693
6	328	320	373	18200	16500	6130	605	2430	2690	830	1050	732
7	507	323	359	14500	14500	6170	618	1900	3260	821	1270	683
8	395	318	342	7250	7110	5940	512	1480	1850	907	896	678
9	340	318	357	4000	4020	6140	479	535	1310	862	887	663
10	375	326	354	4000	4030	6140	491	1480	1340	1410	942	697
11	350	327	321	3990	4010	6130	476	2640	474	1340	1180	673
12	344	326	320	3990	4030	6120	3410	2570	751	984	3600	697
13	342	327	323	4010	4020	3310	1740	2830	874	970	4800	917
14	341	331	358	4050	4010	3030	2020	1980	736	1400	3370	684
15	341	331	426	4020	3650	3570	2400	1040	1510	1630	2580	1340
16	330	331	437	4000	4050	3880	3040	1020	1360	2310	2390	1840
17	302	331	404	4000	11100	4160	3530	1620	1460	1710	1080	1570
18	304	332	350	3990	7940	4150	3810	2020	1310	2600	2680	1430
19	315	344	342	3980	9440	4280	2640	1680	1110	3090	1910	684
20	311	343	334	3970	4020	4220	4880	879	1120	1390	1680	672
21	309	349	331	3970	4010	4250	6470	2160	569	2550	1430	670
22	321	344	337	3980	4000	4410	3460	1790	584	1930	1430	691
23	335	344	367	3970	3980	2110	3170	1880	498	2570	1410	680
24	336	297	363	3970	3970	3330	2760	2520	2650	884	907	707
25	400	285	2380	3960	3960	3890	4240	2640	949	874	1020	696
26	370	341	2550	3950	3950	3880	9780	3370	894	618	667	705
27	313	335	2830	3960	3980	4010	7520	3960	1120	1130	670	708
28	346	295	3010	3960	4000	3910	7330	3180	1190	1160	697	694
29	341	323	4150	3970	---	4060	7270	2030	1360	852	678	682
30	326	408	4100	3980	---	3840	7030	2130	1440	886	712	681
31	332	---	7240	4000	---	4030	---	3960	---	907	664	---
TOTAL	11661	9886	35035	207020	209590	141330	104351	75784	45849	42925	44834	24309
MEAN	376	330	1130	6678	7485	4559	3478	2445	1528	1385	1446	810
MAX	570	408	7240	18200	29400	6210	9780	7250	3260	3090	4800	1840
MIN	302	285	320	3950	3650	2110	476	535	474	618	664	663
MEAN†	309	411	3125	5922	8128	3533	4514	2211	1629	1185	1549	709
CFSM†	.10	.14	1.06	2.01	2.76	1.20	1.53	.75	.55	.40	.53	.24
IN†	.12	.16	1.22	2.31	2.87	1.38	1.71	.86	.62	.46	.61	.27

CAL YR 1981 TOTAL 605271 MEAN 1658 MAX 50000 MIN 256 MEAN† 1708 CFSM† 0.58 IN† 7.86
WTR YR 1982 TOTAL 952574 MEAN 2610 MAX 29400 MIN 285 MEAN† 2734 CFSM† 0.93 IN† 12.58

† ADJUSTED FOR CHANGE IN CONTENTS IN LAKE OCONEE AND SINCLAIR RESERVOIR.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1968 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, Dissolved Oxygen, and Specific Conductance by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE (DEG C)	TEMPERATURE, AIR (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT										
20...	1000	308	74	72	7.4	7.1	19.5	19.0	9.2	98
NOV										
17...	0900	320	--	76	--	7.3	17.0	15.5	8.1	--
DEC										
15...	1215	500	--	73	7.4	7.3	11.0	10.0	10.8	97
JAN										
12...	1300	3990	65	--	7.3	--	7.5	.0	10.2	84
19...	1100	3990	--	64	7.0	7.2	6.5	17.0	10.8	89
FEB										
10...	1250	4060	55	57	7.2	7.0	8.0	12.0	10.5	88
MAR										
17...	1500	6200	53	52	6.3	6.7	13.0	20.5	9.2	87
APR										
21...	1245	7210	55	54	6.9	6.9	17.0	25.5	8.0	84
MAY										
10...	0900	513	55	57	6.8	6.9	18.0	17.5	9.2	98
JUN										
15...	0925	400	58	59	7.0	6.8	25.0	29.5	5.6	68
JUL										
21...	1500	2550	--	59	6.9	7.1	29.0	32.0	6.6	87
AUG										
17...	1230	410	65	60	7.2	7.0	28.0	28.0	6.2	78
SEP										
14...	1130	405	65	64	7.3	7.3	27.5	31.5	6.5	90

DATE	TURBIDITY (JTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, CONFIRMED (MPN)	COLIFORM, FECAL, EC BROTH (MPN)	ALKALINITY LAB (MG/L AS CACO3)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)
OCT											
20...	4	.4	930	40	20	.04	.060	.020	3.5	150	<50
NOV											
17...	5	.5	230	40	21	.05	.020	<.020	2.0	--	--
DEC											
15...	11	.7	2300	210	20	.14	.040	.030	3.3	380	<50
JAN											
19...	23	.5	80	20	20	.22	.040	.040	8.0	420	60
FEB											
10...	33	.8	230	170	15	.39	.080	.060	5.0	320	50
MAR											
17...	50	.5	70	20	14	.35	.080	.080	6.0	1520	70
APR											
21...	44	1.2	320	<20	12	.44	<.020	.080	2.0	1180	60
MAY											
10...	28	.4	1400	70	15	.39	.040	.040	4.0	2000	<50
JUN											
15...	12	.3	140	<20	17	.22	.030	.020	3.0	125	<50
JUL											
21...	6	.4	1300	50	18	.07	.070	<.040	<1.0	210	60
AUG											
17...	6	.8	20	2300	19	.07	.040	<.020	<1.0	340	105
SEP											
14...	4	.4	700	20	21	.04	.060	.020	2.0	115	<50

02223040 OCONEE RIVER NEAR HARDWICK, GA.

LOCATION.--Lat 33°01'45", long 83°11'24", Baldwin County, Hydrologic Unit 03070102, on right bank 1 mi (1.6 km) downstream from Camp Creek, and 3 mi (4.8 km) southeast of Hardwick.

PERIOD OF RECORD.--July 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, Dissolved Oxygen, and Specific Conductance by U.S. Geological Survey. Flow regulated by Lake Oconee and Sinclair Reservoir. (See "Lakes and Reservoirs in Altamaha River Basin", stations 02220450 and 02222500.) Discharge obtained from gaging station 02223000, Oconee River at Milledgeville, Ga.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE (DEG C)	TEMPERATURE, AIR (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT										
20...	1100	316	80	82	7.6	7.4	18.0	17.5	8.3	85
NOV										
17...	0945	328	--	87	7.2	7.2	15.5	15.0	8.2	--
DEC										
15...	1130	454	--	84	7.3	7.2	10.0	11.0	10.1	89
JAN										
12...	1400	3990	68	--	7.3	--	7.0	1.0	10.3	84
19...	1500	3980	--	67	7.2	7.1	7.5	20.0	11.0	92
FEB										
10...	1215	4030	58	58	7.3	7.3	7.5	11.0	10.5	87
MAR										
17...	1400	6100	55	53	6.7	6.7	13.5	21.5	8.7	84
APR										
21...	1400	7210	55	54	6.8	6.9	18.0	29.0	8.0	84
MAY										
10...	0800	500	61	62	6.8	7.0	18.0	16.0	8.8	94
JUN										
15...	0840	405	69	71	6.9	7.1	24.0	28.5	6.4	77
JUL										
21...	1400	810	--	64	6.9	7.1	29.0	31.0	6.2	--
AUG										
17...	1115	420	--	65	7.2	7.0	27.5	30.0	5.8	75
SEP										
14...	1045	410	78	73	7.2	7.2	26.5	28.5	6.5	86

DATE	TURBIDITY (JTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	ALKALINITY LAB (MG/L AS CACO3)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT								
20...	5	1.4	2300	25	.08	.210	.140	2.0
NOV								
17...	6	2.0	430	24	.07	.230	.120	4.0
DEC								
15...	24	2.6	230000	23	.14	.140	.140	5.5
JAN								
19...	23	.6	7000	20	.22	.080	.060	5.0
FEB								
10...	33	.9	3300	16	.36	.100	.060	5.0
MAR								
17...	50	1.0	7900	13	.36	.080	.060	6.0
APR								
21...	44	.9	4900	13	.44	.050	.080	2.0
MAY								
10...	26	.7	<20	12	.40	.150	.090	4.0
JUN								
15...	13	1.3	1300	21	.30	.180	.100	3.0
JUL								
21...	8	.9	49000	20	.09	.230	.080	<1.0
AUG								
17...	7	1.0	170	20	.08	.130	.080	<1.0
SEP								
14...	5	1.0	13000	23	.08	.160	.090	5.0

02223250 OCONEE RIVER NEAR TOOMSBORO, GA.

LOCATION.--Lat 32°46'54", long 82°57'30", Wilkinson-Washington County line, Hydrologic Unit 03070102, at bridge on State Route 57, 3.2 mi (5.1 km) downstream of Commissioner Creek, 7.5 mi (12.1 km) east of Toomsboro, and at mile 96.2 (154.8 km).
DRAINAGE AREA.--3,770 mi^2 (9,760 km^2).
PERIOD OF RECORD.--February 1979 to current year.
REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, Dissolved Oxygen, and Specific Conductance by U.S. Geological Survey. Flow regulated by Lake Oconee and Sinclair Reservoir. (See "Lakes and Reservoirs in Altamaha River Basin", stations 02220450 and 02222500.)

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE (DEG C)	TEMPERATURE, AIR (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT										
20...	1215	380	160	155	7.5	7.4	17.0	21.5	9.5	95
NOV										
17...	1055	420	--	--	7.3	7.3	14.0	17.5	11.6	--
DEC										
15...	1000	690	--	160	7.0	7.0	8.5	13.0	10.5	90
JAN										
12...	1530	5800	70	--	6.7	--	5.0	-.5	10.6	82
19...	1300	5100	85	70	7.1	7.0	7.0	18.5	11.2	92
FEB										
10...	1045	15000	55	55	6.5	6.9	8.5	6.0	8.9	76
MAR										
17...	1300	5700	--	60	6.5	6.8	14.0	22.0	9.3	90
APR										
21...	1515	6800	56	59	6.9	7.0	17.5	25.0	8.6	89
MAY										
10...	0700	1440	81	83	6.8	6.9	19.5	15.0	7.9	87
JUN										
15...	0730	860	115	116	6.9	7.2	26.0	24.0	6.8	84
JUL										
21...	1500	1120	--	112	7.0	7.2	30.0	35.0	6.6	88
AUG										
17...	0930	3700	--	68	7.2	7.2	27.5	27.0	6.6	82
SEP										
14...	0930	720	140	137	7.4	7.3	25.0	28.0	6.9	87

DATE	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	ALKALINITY LAB (MG/L AS CACO3)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT									
20...	10	6	.4	140	25	.40	.060	.060	2.0
NOV									
17...	5	5	.4	2300	21	.47	.070	.050	3.0
DEC									
15...	40	20	2.1	680	15	.52	.160	.070	3.8
JAN									
19...	80	29	.6	4600	16	.22	.050	.060	4.0
FEB									
10...	200	38	.9	700	13	.26	.050	.080	5.0
MAR									
17...	240	58	.7	1300	12	.37	.060	.070	5.0
APR									
21...	100	66	1.0	3100	13	.43	<.020	.140	4.0
MAY									
10...	70	22	.7	50	19	.32	.040	.080	4.0
JUN									
15...	50	13	.8	3300	21	.42	<.020	.060	3.0
JUL									
21...	40	17	.6	3300	21	.10	.090	.580	<1.0
AUG									
17...	20	16	1.0	330	23	.11	.030	.120	1.0
SEP									
14...	50	16	.4	620	27	.28	.200	.410	8.6

02223500 OCONEE RIVER AT DUBLIN, GA.

LOCATION.--Lat 32°32'40", long 82°53'41", Laurens County, Hydrologic Unit 03070102, near left bank on downstream end of pier of bridge on U.S. Highway 80 at Dublin, and at mile 74.3 (119.5 km).
DRAINAGE AREA.--4,400 mi^2 (11,400 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1894 to September 1897 (gage heights only), October 1897 to current year. Monthly discharge only for some periods, published in WSP 1304. Gage-height records collected at same site since 1893 are contained in reports of National Weather Service.
REVISED RECORDS.--WSP 822: Drainage area. WSP 1504: 1898-1903, 1905-6, 1908-9, 1912, 1913(M), 1925(M).
GAGE.--Water-stage recorder. Datum of gage is 149.08 ft (45.440 m) National Geodetic Vertical Datum of 1929. Prior to Apr. 14, 1932, nonrecording gage and Apr. 15, 1932, to June 17, 1934, water-stage recorder at site 420 ft (128 m) downstream at datum 3.0 ft (0.91 m) higher, Oct. 1, 1933, to July 17, 1934 corrected to present datum. July 18, 1934, to Apr. 14, 1936, water-stage recorder, Apr. 15, 1936, to Oct. 12, 1938, nonrecording gage, and Oct. 13, 1938, to Jan. 20, 1953, water-stage recorder at site 80 ft (24 m) upstream at present datum.
REMARKS.--Records good. Flow regulated by Lake Oconee and Sinclair Reservoir. (See "Lakes and Reservoirs in Altamaha River Basin", stations 02220450 and 02222500.) Records of chemical analyses for the water years 1968-73 are published in reports of the U.S. Geological Survey.
AVERAGE DISCHARGE.--85 years (1897-1982), 5,017 ft^3/s (142.1 m^3/s), 15.48 in/yr (393 mm/yr), unadjusted.
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 97,700 ft^3/s (2,770 m^3/s) Apr. 12, 13, 1936, gage height, 32.97 ft (10.049 m); minimum, 333 ft^3/s (9.43 m^3/s) Sept. 12, 1951, gage height, 0.48 ft (0.146 m).
EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1893, that of Apr. 12, 13, 1936.
EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 19,000 ft^3/s (538 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 9	2400	20900	592	19.69	6.002	Feb. 8	2000	*28400	804	22.78	6.943

Minimum daily discharge, 445 ft^3/s (12.6 m^3/s) Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	445	647	568	8360	5100	5450	4790	12200	3370	1440	1260	789
2	644	612	689	10200	5290	5380	4780	11300	2970	1430	1370	771
3	573	593	755	11500	6080	5260	4990	10100	2680	1230	1350	840
4	545	577	769	14000	9420	5870	4620	7250	2940	1460	1210	867
5	596	563	753	16800	11600	7130	3800	3770	3540	1340	1190	874
6	588	551	718	18100	15100	7770	5120	2720	3060	1170	1150	817
7	590	539	675	18400	23600	8200	4420	3190	3080	1180	1130	786
8	502	534	648	19400	28100	8750	3550	2820	3080	998	1360	784
9	562	526	619	20600	27300	8890	3180	2440	2630	975	1310	755
10	545	529	592	20400	24400	8640	2780	1960	1920	1160	1170	795
11	527	534	584	18200	19800	8470	2320	1430	1530	1510	1130	873
12	574	540	581	13600	14700	8170	2040	2330	1430	1930	1220	964
13	554	543	577	8230	9590	7810	2700	2580	996	1770	1900	997
14	527	551	655	6710	7150	6260	3500	2840	1180	1540	3830	1030
15	508	545	1160	7050	6430	4710	2930	2640	1180	1510	3460	1040
16	500	543	1670	6800	5940	4710	3290	2100	1110	1850	2900	917
17	495	541	1720	6460	6530	4970	3700	1480	1440	2080	2350	1310
18	490	542	1690	6220	8180	5320	4150	1590	1440	2430	2000	1550
19	465	541	1640	5910	9840	5510	4680	1870	1450	2590	1860	1470
20	452	543	1380	5660	10900	5550	4790	2280	1340	2860	2330	1360
21	457	534	1170	5470	11700	5550	4800	1960	1210	2420	2050	976
22	459	533	1050	5300	11000	5470	6870	1910	1150	1950	1740	910
23	457	531	981	5220	8160	5480	5730	2270	891	2410	1570	860
24	463	559	927	5580	6330	4860	4490	2170	861	2180	1490	834
25	508	582	1060	5740	5690	3480	3960	2430	966	2060	1420	805
26	789	586	2280	5520	5410	4720	5810	2960	1930	1280	1120	815
27	1100	559	3510	5350	5350	4700	9240	3710	1220	1170	1090	783
28	993	582	3690	5200	5420	4790	10900	4060	1160	1080	887	806
29	823	569	4640	5010	---	4720	11900	4180	1290	1350	826	801
30	783	544	5960	4880	---	4800	12400	2980	1350	1330	806	772
31	711	---	6310	4870	---	4770	---	2410	---	1170	787	---
TOTAL	18225	16673	50021	300740	314110	186160	152230	109930	54394	50853	49266	27951
MEAN	588	556	1614	9701	11220	6005	5074	3546	1813	1640	1589	932
MAX	1100	647	6310	20600	28100	8890	12400	12200	3540	2860	3830	1550
MIN	445	526	568	4870	5100	3480	2040	1430	861	975	787	755

CAL YR 1981 TOTAL 812287 MEAN 2225 MAX 31200 MIN 445 MEAN† 2275 CFSM† 0.52 IN† 7.02
WTR YR 1982 TOTAL 1330553 MEAN 3645 MAX 28100 MIN 445 MEAN† 3769 CFSM† 0.86 IN† 11.63

† ADJUSTED FOR CHANGE IN CONTENTS IN LAKE OCONEE AND SINCLAIR RESERVOIR.

02223500 OCONEE RIVER AT DUBLIN, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1963 to September 1964, February 1968 to July 1973.
PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1963 to September 1964, June 1979 to current year.
INSTRUMENTATION.--Water-temperature recorder since June 1979.
REMARKS.--No record Mar. 8-17.
EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum recorded, 31.5°C Aug. 9, 10, 1979, Aug. 20-22, 1980; minimum, 2.5°C Dec. 21, 1981.
EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 30.5°C July 4-5, 22; minimum, 2.5°C Dec. 21.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	26.0	24.0	16.5	16.0	13.5	13.0	8.5	8.0	9.5	9.5	9.5	8.5
2	25.0	23.5	17.5	16.0	14.0	13.0	9.0	8.5	9.5	9.0	10.5	9.5
3	23.0	21.5	18.0	17.0	13.0	12.0	9.5	9.0	9.0	8.5	11.0	10.5
4	22.0	20.0	19.0	18.0	11.5	10.5	10.0	9.5	9.0	8.5	11.5	11.0
5	21.5	19.5	20.0	19.0	10.5	9.5	10.0	9.5	10.0	9.0	12.5	11.5
6	22.5	20.5	19.5	18.5	9.5	8.5	9.5	9.0	10.5	10.0	13.0	12.5
7	23.0	22.0	18.0	16.5	9.0	8.0	9.5	9.0	10.5	10.0	13.0	12.5
8	22.5	21.0	16.5	15.5	10.0	8.5	9.5	9.5	10.0	9.5	---	---
9	21.0	20.5	15.5	14.5	9.5	8.5	9.5	9.0	9.5	9.5	---	---
10	20.5	19.5	15.5	15.0	8.5	7.0	9.0	7.5	10.0	9.5	---	---
11	19.5	19.0	16.0	14.5	7.0	6.0	7.0	5.0	10.0	9.5	---	---
12	20.0	18.0	15.5	14.0	6.0	5.5	4.5	4.0	10.0	9.0	---	---
13	19.5	18.0	14.0	12.5	6.0	5.5	5.0	4.0	9.0	9.0	---	---
14	19.0	17.5	12.5	11.5	7.5	6.0	5.0	5.0	9.5	9.0	---	---
15	19.5	17.5	12.0	10.5	8.5	7.5	5.0	4.5	10.0	9.5	---	---
16	20.0	18.0	12.5	11.5	8.0	7.5	5.0	4.5	11.0	10.0	---	---
17	21.0	19.0	13.5	12.0	7.5	7.0	5.5	5.0	12.5	11.5	---	---
18	21.0	20.0	13.5	12.0	8.0	7.0	5.0	5.0	12.5	10.5	16.0	15.0
19	20.0	19.0	13.5	12.0	7.0	5.5	6.5	5.0	11.5	10.5	17.0	15.5
20	18.5	16.5	14.5	13.0	5.0	3.5	8.0	6.5	11.5	11.0	17.5	16.5
21	18.0	16.0	13.0	11.5	3.5	2.5	9.5	8.0	12.0	11.0	17.5	16.5
22	18.5	16.5	11.5	10.5	5.5	3.5	9.5	9.5	12.0	12.0	17.5	16.0
23	19.5	18.0	10.5	9.5	9.0	5.5	9.5	8.5	12.0	11.5	16.0	15.5
24	18.5	16.5	11.5	10.0	10.0	9.0	8.5	8.0	12.0	11.5	16.0	15.5
25	16.5	15.0	11.0	10.0	10.0	10.0	8.0	7.5	12.5	12.0	16.0	15.5
26	15.0	14.5	11.5	10.0	10.0	9.0	7.5	7.5	12.5	11.0	16.0	15.0
27	17.0	15.0	12.5	11.0	9.0	9.0	7.5	6.5	11.0	9.0	15.0	14.5
28	17.5	16.0	14.5	12.5	9.0	9.0	6.5	6.0	9.0	9.0	14.5	13.5
29	17.0	16.0	13.5	13.0	10.5	9.0	7.5	6.5	---	---	13.5	13.0
30	16.5	16.0	13.5	13.0	10.5	10.0	8.5	7.5	---	---	15.0	13.5
31	17.0	16.0	---	---	10.0	8.5	9.5	8.5	---	---	16.0	15.0
MONTH	26.0	14.5	20.0	9.5	14.0	2.5	10.0	4.0	12.5	8.5	17.5	8.5

02223500 OCONEE RIVER AT DUBLIN, GA.--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	16.5	15.5	18.5	18.0	26.0	25.0	29.0	27.5	28.0	27.0	28.0	28.0
2	17.0	16.0	19.0	18.0	26.0	24.5	30.0	28.0	27.0	26.5	28.0	28.0
3	17.0	16.5	19.0	18.5	26.0	25.5	30.0	28.5	27.0	26.5	28.0	28.0
4	17.0	16.5	19.5	19.0	25.5	24.5	30.5	29.0	27.5	27.0	28.0	28.0
5	16.5	15.5	20.5	19.5	25.0	24.0	30.5	28.5	28.0	27.5	28.0	27.5
6	15.5	15.0	21.0	20.0	26.0	24.5	30.0	28.5	28.0	27.5	27.5	27.0
7	14.5	14.0	20.5	20.0	26.0	24.5	29.0	28.0	28.0	27.5	27.0	26.0
8	14.0	13.0	21.0	19.5	26.0	25.0	28.5	28.0	29.0	28.0	26.5	26.0
9	14.0	12.5	21.5	20.0	27.0	25.0	28.5	27.5	29.0	28.5	26.0	25.5
10	15.0	13.5	22.0	20.0	28.0	26.0	27.5	27.0	28.5	28.0	25.5	25.0
11	16.0	14.0	22.5	20.0	29.0	26.5	27.0	26.0	28.5	28.0	25.0	25.0
12	16.5	14.5	22.5	21.0	28.0	26.5	27.5	26.0	28.5	28.0	25.0	25.0
13	17.5	15.5	22.5	20.5	27.0	26.0	28.0	26.5	28.0	27.5	25.0	25.0
14	18.0	16.5	22.5	21.0	27.5	25.5	28.0	27.0	28.5	28.5	25.0	25.0
15	19.0	18.0	22.0	21.0	27.5	26.0	27.5	27.0	29.0	28.5	25.5	25.5
16	19.0	18.0	23.0	21.5	28.5	27.0	28.5	27.0	29.5	28.5	26.0	25.5
17	19.5	18.5	23.5	21.5	28.0	26.5	28.0	27.0	29.0	28.5	26.5	26.0
18	19.5	18.5	24.5	22.5	26.5	25.5	29.0	27.5	28.5	27.5	27.5	27.0
19	18.0	17.0	24.0	23.0	27.0	25.0	29.5	28.0	27.0	26.5	27.5	27.5
20	17.0	16.5	23.5	22.5	28.5	26.5	29.5	28.5	28.5	27.0	27.5	27.0
21	18.0	16.5	24.5	22.5	28.0	27.5	30.0	28.5	29.5	27.5	27.0	26.5
22	18.0	17.5	25.5	23.5	28.0	27.5	30.5	29.0	29.5	28.5	26.5	25.5
23	17.5	17.0	24.5	23.5	27.5	26.5	29.5	28.5	29.5	28.5	25.5	24.5
24	17.5	16.5	24.5	23.5	28.5	26.5	29.0	28.5	30.0	28.5	24.5	23.5
25	17.0	17.0	24.5	23.5	28.5	27.5	29.5	28.0	30.0	29.5	23.5	23.0
26	17.5	17.0	24.0	23.5	28.0	27.0	30.0	28.5	30.0	29.5	23.0	23.0
27	18.0	17.5	24.0	23.0	27.5	27.0	30.0	29.0	30.0	29.5	23.0	23.0
28	18.0	18.0	24.5	23.0	28.0	27.0	29.5	28.0	30.0	29.5	23.5	23.0
29	18.5	18.0	25.5	24.0	28.0	27.0	28.5	27.5	29.5	29.5	23.5	23.5
30	18.5	18.0	26.0	24.5	28.5	26.5	28.5	28.0	29.5	28.5	23.5	23.5
31	---	---	26.5	25.5	---	---	28.0	28.0	28.5	28.0	---	---
MONTH	19.5	12.5	26.5	18.0	29.0	24.0	30.5	26.0	30.0	26.5	28.0	23.0
YEAR	30.5	2.5										

02223600 OCONEE RIVER AT I-16, NEAR DUBLIN, GA.

LOCATION.--Lat 32°29'05", long 82°51'45", Laurens County, Hydrologic Unit 03070102, at Interstate Highway 16, 4.0 mi (6.4 km) upstream from Pughes Creek, 4.5 mi (7.2 km) southeast of Dublin, and at mile 69.9 (112.5 km).

DRAINAGE AREA.--4,400 mi^2 (11,400 km^2), approximately.

PERIOD OF RECORD.--October 1973 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, Dissolved Oxygen, and Specific Conductance by U.S. Geological Survey. Flow regulated by Lake Oconee and Sinclair Reservoir. (See "Lakes and Reservoirs in Altamaha River Basin", stations 02220450 and 02222500.) Discharge obtained from gaging station 02223500, Oconee River at Dublin, Ga.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	TEMPER-ATURE, AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT										
22...	0830	457	--	185	7.1	7.2	16.5	20.0	8.6	88
NOV										
24...	1055	566	--	190	6.9	7.2	10.5	17.5	12.1	110
DEC										
10...	1025	594	--	180	7.1	7.2	7.5	.0	12.3	104
JAN										
21...	0915	5490	--	76	--	7.1	8.5	18.0	10.6	91
FEB										
18...	0845	7900	--	65	6.6	6.8	12.0	14.0	9.3	87
MAR										
18...	0920	4950	--	71	6.6	6.7	15.0	24.0	--	--
APR										
22...	0910	6870	60	59	6.5	7.1	17.5	22.0	8.4	88
MAY										
20...	0840	2300	82	87	6.8	7.2	22.5	26.5	7.3	85
JUN										
23...	0755	890	--	112	7.1	7.2	26.5	28.0	6.5	82
JUL										
21...	1115	2380	--	79	--	7.3	30.0	35.0	6.4	85
AUG										
17...	0715	2480	--	74	7.2	7.2	--	24.5	5.4	65
SEP										
14...	0745	1050	121	121	7.2	7.2	24.5	24.0	6.3	74

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT												
22...	10	4	8	.8	430	28	3	.30	.220	.40	.080	5.0
NOV												
24...	10	5	9	.8	2300	25	5	.30	.320	.40	.040	5.7
DEC												
10...	30	8	12	.9	9300	23	6	.38	.320	.60	.080	4.8
JAN												
21...	70	29	11	.7	2300	16	34	.28	.150	.30	.060	5.0
FEB												
18...	160	42	27	.7	790	12	64	.25	.080	.37	.080	3.0
MAR												
18...	200	38	20	.4	1300	16	35	.31	.070	.50	.080	6.0
APR												
22...	180	60	19	.7	2300	14	94	.40	.030	.50	.140	4.0
MAY												
20...	110	29	11	.9	5100	19	32	.34	.100	.20	.100	4.0
JUN												
23...	30	12	0	.8	13000	23	15	.28	.130	.50	.100	3.0
JUL												
21...	40	28	--	.5	1700	20	43	.11	.160	--	.100	<1.0
AUG												
17...	30	25	--	.7	3100	21	42	.14	.080	--	.080	3.0
SEP												
14...	35	7	--	.5	230	25	13	.14	.120	--	.070	2.0

02224000 ROCKY CREEK NEAR DUDLEY, GA.

LOCATION.--Lat 32°29'38", long 83°08'49", Laurens County, Hydrologic Unit 03070102, on downstream side of highway bridge, 3.2 mi (5.1 km) upstream from Buckhorn Branch, and 5 mi (8.0 km) southwest of Dudley.

DRAINAGE AREA.--62.9 mi² (163 km²).

PERIOD OF RECORD.--November 1970 to current year. Water-discharge records for water years 1952-76 are published in reports of the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
FEB 16...	1130	95	57	52	6.8	6.7	13.5	9.2
AUG 17...	1000	8.0	85	87	7.3	7.4	24.5	6.7

DATE	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (NTU)	HARDNESS (MG/L AS CACO3)	HARDNESS NONCARBONATE (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)
FEB 16...	44	8.5	19	7.0	5.6	1.3	3.4	26	.4	1.4	12	2.5
AUG 17...	75	6.1	34	3.0	11	1.5	3.0	16	.2	.5	31	3.0

DATE	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)
FEB 16...	6.6	<.1	5.2	48	34	12.3	1.4	1.4	2.20	2.50	1.0
AUG 17...	6.6	.2	11	140	57	3.0	.31	.32	.010	.030	.39

DATE	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN DISSOLVED (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)
FEB 16...	.40	3.20	2.9	4.3	4.6	.570	.460	7.5	70	1	1
AUG 17...	.57	.40	.60	1.2	.71	.050	.040	--	20	1	1

DATE	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	SELENIUM, DISSOLVED (UG/L AS SE)	ZINC, DISSOLVED (UG/L AS ZN)
FEB 16...	4	20	3	370	4	2	41	<.1	<.1	<1	16
AUG 17...	<1	10	1	1100	1	2	88	<.1	<.1	<1	<4

02225000 ALTAMAHA RIVER NEAR BAXLEY, GA.

LOCATION.—Lat 31°56'20", long 82°21'13", Appling-Toombs County line, Hydrologic Unit 03070106, on right bank 400 ft (122 m) downstream from bridge on U.S. Highway 1, 2.2 mi (3.5 km) upstream from Bay Creek, 8 mi (12.9 km) downstream from Bullards Creek, and 12 mi (19.3 km) north of Baxley.

DRAINAGE AREA.—11,600 mi^2 (30,000 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—August 1949 to June 1951, October 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is 61.51 ft (18.748 m) National Geodetic Vertical Datum of 1929. Aug. 13, 1949, to June 30, 1951, nonrecording gage at site 400 ft (122 m) upstream at same datum.

REMARKS.--Records good except those for period Oct. 1 to Dec. 31, which are fair.

AVERAGE DISCHARGE.—13 years (1949-50, 1971-82), 11,750 ft^3/s (332.8 m^3/s), 13.76 in/yr (350 mm/yr).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 97,500 ft^3/s (2,760 m^3/s) Mar. 12, 1971, gage height, 22.7 ft (6.92 m); minimum daily, 1,680 ft^3/s (47.6 m^3/s) Oct. 25, 1981.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 10, 1948, reached a stage of 25.1 ft (7.65 m), from floodmark, discharge, 130,000 ft^3/s (3,680 m^3/s).

Flood of January 1925 reached a stage of 30.0 ft (9.14 m), from information furnished by Georgia Department of Transportation.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 25,000 ft^3/s (708 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 16	0200	40700	1150	16.87	5.142
Feb. 15	1900	*49300	1400	18.10	5.517

Minimum daily discharge, 1,680 ft^3/s (47.6 m^3/s) Oct. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1870	2530	2130	8540	12900	19500	11200	19600	11000	7170	6220	3430
2	1850	2540	2250	9950	12700	18500	10600	21100	10800	6420	5940	3230
3	1760	2480	2260	11200	12600	17700	10100	22200	11300	6010	6080	3090
4	1780	2390	2340	12400	12800	16800	10000	23000	12000	5820	6200	3010
5	1820	2340	2360	13500	13600	15700	10200	23300	12100	5650	5980	3000
6	1870	2270	2370	14800	15000	14900	11100	23300	12500	5650	5840	3090
7	1830	2170	2400	16400	16300	14700	13000	22800	13300	5420	5830	3060
8	1740	2100	2450	18800	17700	15100	14800	20400	13500	5010	5790	3000
9	1750	2060	2470	21400	20000	15800	16000	18300	13300	4780	5580	3160
10	1790	2030	2450	24600	23400	16400	16600	17100	12700	4560	5560	3240
11	1820	2040	2390	28200	29300	17000	16800	15200	11800	4290	5600	3220
12	1760	2030	2340	31600	37000	17500	16800	12700	10200	4170	5630	3430
13	1730	2050	2280	35500	43800	18000	16800	9920	8540	4300	5690	4030
14	1690	2050	2270	38700	47500	18400	16500	8410	7100	4750	5640	4060
15	1810	2040	2300	40200	49000	18500	15800	7930	6190	5200	5980	4100
16	1840	2040	2350	40100	48400	18000	15000	7610	5700	6000	7000	4400
17	1890	2060	2620	37700	45600	17000	13500	7230	5490	6740	7380	4520
18	1920	2040	3050	34400	40900	15500	12400	6590	5470	6980	7320	4200
19	1850	2010	3340	31300	35700	14400	11700	5900	5720	6930	7350	3960
20	1850	2000	3690	28300	31200	14100	11500	5510	5710	6930	8230	4040
21	1900	1990	4130	25500	27600	13700	11500	5560	5450	7030	8420	4080
22	1900	1980	4230	23000	25300	13200	11400	5800	5170	7210	7960	3970
23	1800	1980	4080	20900	24100	12900	11200	5930	4870	7350	7350	3610
24	1690	1980	3880	19100	24000	12800	11700	6000	4810	7350	6850	3310
25	1680	1980	3700	17500	24300	13000	12600	6430	4790	8040	6310	3160
26	1820	2000	3590	16100	24000	13100	13800	6810	4960	8180	5730	3080
27	1890	2030	3540	14900	22600	12600	14800	7240	5030	7810	5230	3040
28	1980	2070	3980	14100	20900	12300	15800	8140	5950	6870	4720	2910
29	2150	2080	5050	13600	---	12300	16900	9450	6680	6150	4360	2790
30	2350	2080	5900	13300	---	12100	18200	10400	7510	5840	4010	2700
31	2390	---	7060	13100	---	11700	---	10900	---	6120	3690	---
TOTAL	57770	63440	99250	688690	758200	473200	408300	380760	249640	190730	189470	103920
MEAN	1864	2115	3202	22220	27080	15260	13610	12280	8321	6153	6112	3464
MAX	2390	2540	7060	40200	49000	19500	18200	23300	13500	8180	8420	4520
MIN	1680	1980	2130	8540	12600	11700	10000	5510	4790	4170	3690	2700
CFSM	.16	.18	.28	1.92	2.33	1.32	1.17	1.06	.72	.53	.53	.30
IN.	.19	.20	.32	2.21	2.43	1.52	1.31	1.22	.80	.61	.61	.33

CAL YR 1981 TOTAL 1946660 MEAN 5333 MAX 34500 MIN 1680 CFSM .46 IN 6.24

WTR YR 1982 TOTAL 3663370 MEAN 10040 MAX 49000 MIN 1680 CFSM .87 IN 11.75

02225000 ALTAMAHA RIVER NEAR BAXLEY, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1970 to current year.
PERIOD OF DAILY RECORD.--
CHLORIDE: May 1970 to August 1975.
SPECIFIC CONDUCTANCE: June 1971 to September 1976.
pH: October 1971 to September 1976.
WATER TEMPERATURES: December 1970 to September 1976.
DISSOLVED OXYGEN: May 1971 to September 1976.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Water Temperature, pH, Dissolved Oxygen, and Specific Conductance by U.S. Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.--
CHLORIDE: Maximum recorded, 19 mg/L Oct. 10, 1974; minimum recorded, 0.0 mg/L Dec. 26-28, 1972, June 2, 3, 1973.
SPECIFIC CONDUCTANCE: Maximum recorded, 157 micromhos Oct. 9, 1972; minimum recorded, 24 micromhos Feb. 28, Mar. 1, 1974.
pH: Maximum recorded, 8.0 units May 14, 1972; minimum recorded, 5.1 units Dec. 28, 1971.
WATER TEMPERATURES: Maximum, 32.0°C July 24, Aug. 5, 1972; minimum, 5.5°C Jan. 11, 19, 20, 1976.
DISSOLVED OXYGEN: Maximum recorded, 11.7 mg/L Jan. 17, 18, 1973; minimum recorded, 4.7 mg/L Aug. 21, 1972.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE (DEG C)	TEMPERATURE, AIR (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT 22...	1115	1900	--	175	7.6	7.9	16.0	25.0	8.8	89
NOV 24...	1425	1980	--	185	7.4	7.6	9.5	16.0	11.8	105
DEC 10...	1305	2450	--	156	7.3	7.7	7.0	4.0	12.5	104
JAN 21...	1155	25600	--	63	--	6.6	7.0	20.5	11.0	91
FEB 18...	1315	40600	--	58	6.5	6.7	13.0	14.0	7.9	75
MAR 18...	1350	15300	--	74	--	6.9	19.0	30.5	6.9	75
APR 22...	1210	11400	76	76	6.7	7.1	20.0	25.0	7.6	84
MAY 20...	1140	5480	98	101	7.0	7.2	24.5	28.5	7.0	84
JUN 23...	1225	4850	100	101	7.0	7.2	28.0	30.0	6.7	87
JUL 27...	1530	7740	--	79	7.3	7.0	29.5	32.0	5.4	71
AUG 19...	1105	7260	--	85	7.3	7.2	27.0	26.0	6.8	85
SEP 14...	0745	4060	--	95	7.2	7.3	26.0	23.0	5.6	69

DATE	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	ALKALINITY LAB (MG/L AS CACO3)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 22...	10	4	.2	40	48	.44	.020	.070	3.0
NOV 24...	20	4	.4	<30	50	.40	.040	.050	3.8
DEC 10...	30	5	.8	<30	41	.40	.020	.060	3.8
JAN 21...	100	26	.7	330	12	.31	.040	.040	6.8
FEB 18...	160	22	.4	<35	10	.12	<.020	.040	7.0
MAR 18...	100	20	.7	170	20	.23	.030	.050	9.0
APR 22...	110	25	.7	330	20	.41	.020	.100	4.0
MAY 20...	70	18	.2	20	31	.38	.060	.080	4.0
JUN 23...	60	14	.4	40	30	.42	.040	.080	4.0
JUL 27...	40	16	.8	50	23	.31	.020	.080	--
AUG 19...	60	16	1.3	50	26	.36	.050	.080	2.5
SEP 14...	80	11	.3	--	29	.30	.060	.070	18

02225282 CROOKED CREEK NEAR SWAINSBORO, GA.

LOCATION.--Lat 32°34'26", long 82°19'56", Emanuel County, Hydrologic Unit 03070107, at culvert on county road 1 mi (1.6 km) west of U.S. Highway 1, 1.5 mi (2.4 km) southwest of Swainsboro, and 4.2 mi (6.8 km) upstream of Yam Grandy Creek.
DRAINAGE AREA.--2.1 mi^2 (5.4 km^2).
PERIOD OF RECORD.--July 1979 to June 1982 (discontinued).
REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, Dissolved Oxygen, and Specific Conductance by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	TEMPER-ATURE, AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT										
21...	1415	.00	--	568	7.2	7.6	19.5	27.0	.3	3
NOV										
24...	0945	2.7	--	440	7.1	7.2	8.0	18.0	11.4	98
DEC										
09...	1550	.30	--	112	6.1	6.5	5.0	17.0	8.2	55
JAN										
20...	1500	4.8	--	170	--	6.8	12.0	24.0	8.3	77
FEB										
17...	1545	7.8	--	151	6.7	6.8	17.5	24.0	7.6	82
MAR										
17...	1545	6.2	--	40	6.9	7.1	20.0	21.5	9.0	101
APR										
21...	1500	4.8	246	247	8.4	8.5	22.0	27.5	7.8	90
MAY										
19...	1550	.03	132	128	6.8	7.2	21.5	28.0	5.4	62
JUN										
22...	1335	1.5	126	130	6.7	6.8	25.5	33.0	4.7	58

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT									
21...	60	17	23	430	170	2.7	13.1	3.65	28
NOV									
24...	20	12	11	430	77	8.1	2.56	5.90	36
DEC									
09...	60	5	<1.0	90	13	.12	.120	.220	8.2
JAN									
20...	30	14	3.0	50	26	4.2	.020	1.44	9.0
FEB									
17...	50	9	4.0	130	24	3.9	.620	1.22	11
MAR									
17...	160	38	16	4600	37	11	9.25	8.00	28
APR									
21...	55	8	9.0	80	47	3.4	.080	6.60	17
MAY									
19...	70	11	5.0	1600	40	.24	.280	.640	15
JUN									
22...	100	7	1.0	490	34	.32	.070	.300	13

02225470 PENDLETON CREEK NEAR OHOOPEE, GA.

LOCATION.--Lat 32°09'36", long 82°12'43", Toombs County, Hydrologic Unit 03070107, at bridge on State Route 86, 1.5 mi (2.4 km) south of Ohoopee, and 1.6 mi (2.6 km) upstream of Ohoopee River.
DRAINAGE AREA.--300 mi^2 (778 km^2).
PERIOD OF RECORD.--July 1979 to current year.
REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, Dissolved Oxygen, and Specific Conductance by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	TEMPER-ATURE, AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT										
21...	1330	4.0	--	44	--	6.5	13.0	26.0	7.0	67
NOV										
24...	0900	20	--	63	6.2	6.4	6.0	15.5	9.6	78
DEC										
09...	1500	35	--	65	--	6.4	5.0	15.0	11.2	89
JAN										
20...	1410	820	--	45	4.7	5.0	8.0	22.0	9.8	83
FEB										
17...	1435	940	--	39	5.2	5.3	15.0	23.5	7.5	76
MAR										
17...	1455	200	--	44	5.6	5.7	19.0	27.5	7.2	78
APR										
21...	1410	250	42	41	5.6	5.8	18.0	28.0	7.0	74
MAY										
19...	1330	28	43	40	5.9	6.0	21.0	26.0	6.6	74
JUN										
22...	1240	60	45	41	6.0	6.0	25.0	30.0	6.0	73
JUL										
27...	1325	94	--	47	6.0	6.0	25.5	32.0	5.7	70
AUG										
18...	1500	68	--	44	6.4	6.1	24.0	29.0	6.2	74
SEP										
13...	1300	21	--	52	6.2	6.4	25.0	31.0	6.8	82

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT									
21...	40	2	.7	<30	7.0	<.02	.020	.060	7.0
NOV									
24...	100	2	.6	90	9.0	<.02	<.020	.040	15
DEC									
09...	100	4	.9	90	9.0	.02	<.020	.060	16
JAN									
20...	60	10	.5	40	<1.0	.08	.040	<.020	11
FEB									
17...	80	5	.7	50	1.0	.03	.030	.040	15
MAR									
17...	160	7	.6	80	4.0	.35	.080	.090	20
APR									
21...	100	5	.8	140	4.0	.06	.020	.100	17
MAY									
19...	100	5	--	110	5.0	.18	.030	.080	12
JUN									
22...	140	5	.7	110	6.0	.13	.050	.120	17
JUL									
27...	160	5	.8	790	7.0	.14	<.020	.100	--
AUG									
18...	280	7	.7	--	7.0	.18	.040	.120	15
SEP									
13...	100	4	.9	--	8.0	.40	.020	.090	10

02225500 OHOOPEE RIVER NEAR REIDSVILLE, GA.

LOCATION.--Lat 32°04'42", long 82°10'39", Tattnall County, Hydrologic Unit 03070107, on downstream side of pier near center of span of bridge on State Highway 56, 0.5 mi (0.8 km) downstream from Brazells Creek, 1.5 mi (2.4 km) downstream from Rocky Creek, 3.5 mi (5.6 km) west of Reidsville, 6 mi (9.7 km) downstream from Pendleton Creek, and 14 mi (22 km) upstream from mouth.

DRAINAGE AREA.—1,110 mi^2 (2,870 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—April 1903 to December 1907, April 1937 to current year. Monthly discharge only for some periods, published in WSP 1304.

REVISED RECORDS.—WSP 822: Drainage area. WSP 892: 1938(M). WSP 1504: 1905.

GAGE.—Water-stage recorder. Datum of gage is 73.8 ft (22.49 m), National Geodetic Vertical Datum of 1929 (levels by Georgia Department of Transportation). Prior to Feb. 15, 1941, nonrecording gage at same site, at different datum June 13, 1903, to Dec. 31, 1907, and at same datum May 25, 1937, to Feb. 15, 1941.

REMARKS.—Records good.

AVERAGE DISCHARGE.--49 years, 983 ft^3/s (27.84 m^3/s), 12.02 in/yr (305 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 24,400 ft^3/s (691 m^3/s) Mar. 6, 1966, gage height, 23.34 ft (7.114 m); minimum daily, 19 ft^3/s (0.54 m^3/s) Sept. 12, 13, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 28.4 ft (8.66 m) in January 1925, from information furnished by Georgia Department of Transportation; discharge, 47,000 ft^3/s (1,330 m^3/s).

EXTREMES FOR CURRENT YEAR.—Peak discharges above base of 3,800 ft^3/s (108 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 9	2000	*4800	136	13.40	4.084	Feb. 14	1800	4140	117	12.71	3.874

Minimum discharge, 25 ft^3/s (0.71 m^3/s) Oct. 8, 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	59	54	701	1670	1540	673	2840	1060	611	531	163
2	28	55	84	962	1650	1470	627	2720	998	526	550	145
3	27	51	90	1160	1660	1420	601	2480	902	426	543	132
4	26	49	97	1420	1740	1390	581	2250	1280	354	528	125
5	26	53	97	1750	1870	1370	597	1920	1810	299	479	115
6	26	53	103	2140	2040	1420	1040	1560	2060	260	414	109
7	25	50	108	2850	2150	1510	1700	1150	2270	219	395	103
8	25	48	104	3940	2620	1570	2160	890	2350	212	384	97
9	26	47	96	4690	2730	1580	2830	728	2050	330	338	92
10	29	48	88	4590	2980	1580	3460	572	1350	670	296	90
11	35	49	80	4020	3080	1560	3280	526	915	638	274	92
12	37	47	76	3460	3000	1510	2790	450	767	486	263	96
13	39	47	71	2980	3390	1420	2320	386	650	399	244	96
14	39	47	74	2710	4030	1360	1980	340	524	459	241	103
15	37	47	97	2670	3800	1300	1650	297	435	522	248	125
16	35	53	154	2830	3270	1220	1360	263	435	835	237	131
17	35	56	229	3090	3240	1120	1120	239	407	1280	219	127
18	35	54	268	3380	3220	1060	1020	225	406	1170	310	117
19	33	51	324	3430	3060	1050	980	204	435	1000	408	107
20	32	49	368	3330	2860	1140	930	186	418	907	450	100
21	31	48	341	3130	2670	1290	869	170	491	875	460	97
22	30	46	295	2830	2490	1350	819	160	577	1000	518	97
23	30	44	271	2530	2300	1280	786	151	486	1030	561	94
24	29	44	253	2320	2140	1150	751	152	606	778	555	89
25	32	44	248	2170	2030	1120	743	161	866	671	527	83
26	37	46	289	2040	1920	1120	1300	235	820	588	486	80
27	45	50	352	1940	1780	1080	1780	810	651	534	392	77
28	57	49	367	1850	1640	1000	1990	828	640	469	308	73
29	60	48	383	1790	---	906	2120	735	727	565	254	68
30	65	48	426	1740	---	804	2710	722	675	629	217	65
31	65	---	496	1700	---	729	---	998	---	610	188	---
TOTAL	1105	1480	6383	80143	71030	39419	45567	25348	28061	19352	11818	3088
MEAN	35.6	49.3	206	2585	2537	1272	1519	818	935	624	381	103
MAX	65	59	496	4690	4030	1580	3460	2840	2350	1280	561	163
MIN	25	44	54	701	1640	729	581	151	406	212	188	65
CFSM	.03	.04	.19	2.33	2.29	1.15	1.37	.74	.84	.56	.34	.09
IN.	.04	.05	.21	2.69	2.38	1.32	1.53	.85	.94	.65	.40	.10

CAL YR 1981 TOTAL 113029 MEAN 310 MAX 3750 MIN 25 CFSM .28 IN 3.79
WTR YR 1982 TOTAL 332794 MEAN 912 MAX 4690 MIN 25 CFSM .82 IN 11.15

02225500 OHOOPEE RIVER NEAR REIDSVILLE, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1968 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)
OCT					
21...	0920	31	17.0	2	.17
DEC					
09...	1705	94	10.5	2	.51
JAN					
21...	1145	3140	9.5	5	42
MAR					
04...	1115	1390	10.0	8	30
29...	1250	905	11.0	9	22
APR					
21...	1120	878	17.0	14	33
MAY					
26...	1005	162	22.0	9	3.9
AUG					
05...	1245	482	24.5	12	16
SEP					
08...	1315	97	24.0	5	1.3

02225990 ALTAMAHA RIVER NEAR JESUP, GA.

LOCATION.--Lat 31°39'59", long 81°50'19", Wayne-Long County line, Hydrologic Unit 03070106, at bridge on U.S. Highways 25, 82, and 301, 5 mi (8.0 km) northeast of Jesup.
DRAINAGE AREA.--13,600 mi^2 (35,200 km^2), approximately.
PERIOD OF RECORD.--August 1974 to current year.
REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, Dissolved Oxygen, and Specific Conductance by U.S. Geological Survey. Discharge obtained from gaging station 02226000, Altamaha River at Doctortown, Ga.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	TEMPER-ATURE, AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT										
27...	1645	1870	--	158	7.4	7.5	21.0	22.5	8.4	--
NOV										
19...	1430	2060	--	175	7.9	7.8	15.0	25.0	10.2	--
DEC										
09...	0930	2430	--	151	7.7	7.7	11.5	7.0	9.8	--
JAN										
20...	1230	43700	58	58	6.6	6.7	7.0	18.0	11.0	--
FEB										
17...	1030	60000	53	49	--	6.5	13.0	17.0	8.1	--
MAR										
17...	1000	21400	66	66	6.8	6.6	18.0	19.0	6.8	--
APR										
21...	1300	15200	72	72	--	7.0	20.0	27.0	--	64
MAY										
18...	0800	8420	83	82	7.1	7.2	23.5	23.0	7.6	88
JUN										
09...	1230	16500	59	60	6.7	6.9	26.5	28.0	5.2	65
JUL										
28...	1055	10500	72	69	6.8	7.1	28.5	27.5	--	70
AUG										
18...	1135	8090	85	81	6.8	7.2	27.5	23.5	6.5	82
SEP										
28...	1115	3350	123	118	7.5	7.6	23.5	27.0	6.7	78

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	TANNIN AND LIGNIN (MG/L)
OCT											
27...	5	5	1.0	--	46	3	.41	.030	.060	4.0	<.50
NOV											
19...	20	5	.5	<30	48	8	.37	.030	.050	5.5	<.50
DEC											
09...	25	5	.4	<30	40	5	.34	<.020	.060	3.0	<1.0
JAN											
20...	200	28	.8	20	7.0	4	.20	<.020	.040	9.0	1.1
FEB											
17...	160	29	1.4	130	9.0	7	.11	<.020	.060	9.0	1.5
MAR											
17...	80	20	.7	<20	17	6	.20	.230	.100	11	1.1
APR											
21...	80	14	1.5	20	18	12	.29	.030	.080	7.0	1.3
MAY											
18...	100	19	.6	20	25	25	.39	.070	.100	5.0	1.5
JUN											
09...	140	15	.9	60	16	12	.20	.020	.060	14	1.4
JUL											
28...	140	15	1.0	40	18	23	.19	.030	.080	--	1.6
AUG											
18...	70	23	.5	--	25	24	.30	.050	.100	4.5	.60
SEP											
28...	40	10	1.0	20	38	12	--	--	--	--	.50

02226000 ALTAMAHA RIVER AT DOCTORTOWN, GA.

LOCATION.--Lat 31°39'16", long 81°49'41", Wayne-Long County line, Hydrologic Unit 03070106, on right bank 60 ft (18 m) downstream from Seaboard Coast Line Railroad bridge at Doctortown, 4.5 mi (7.2 km) northeast of Jesup, and at mile 64.5 (103.8 km).

DRAINAGE AREA.--13,600 mi^2 (35,200 km^2), approximately.

PERIOD OF RECORD.--October 1931 to current year. Gage-heights collected at same site since 1925 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 822: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 24.48 ft (7.462 m) National Geodetic Vertical Datum of 1929. Prior to Sept. 5, 1934, nonrecording gage, and Sept. 5, 1934, to Sept. 30, 1975, water-stage recorder at same site at datum 4.0 ft (1.22 m) higher.

REMARKS.--Records good except those for period Oct. 1 to Dec. 2, which are fair. Records of chemical analyses for the water years 1967-77 are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--51 years, 13,700 ft^3/s (388.0 m^3/s), 13.68 in/yr (348 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 178,000 ft^3/s (5,040 m^3/s) Apr. 18, 1936, gage height, 16.03 ft (4.886 m), present datum; minimum, 1,430 ft^3/s (40.5 m^3/s) Oct. 27, 28, Nov. 1, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1800, 18.6 ft (5.67 m), present datum, Jan. 23, 1925, discharge, 300,000 ft^3/s (8,500 m^3/s), from rating curve extended above 180,000 ft^3/s (5,100 m^3/s).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 30,000 ft^3/s (850 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 18	0600	47700	1350	12.22	3.725	Feb. 17	2400	*60600	1720	12.89	3.929

Minimum daily discharge, 1,790 ft^3/s (50.7 m^3/s) Oct. 9, 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2160	2410	1910	7060	17300	27600	14100	20800	11100	8190	7660	4380
2	2080	2480	2070	8250	16900	26100	13600	21900	11800	8380	7960	4090
3	2000	2530	2110	9470	16600	24400	13100	23100	12400	7880	7980	3860
4	1940	2510	2200	10900	16400	22900	12500	24600	12700	7250	7760	3710
5	1880	2490	2270	12300	16300	21800	12000	25900	13600	6880	7650	3620
6	1870	2440	2330	13700	16400	21200	12200	26800	14400	6670	7410	3500
7	1840	2340	2360	15200	16800	20600	12600	27200	15100	6640	7100	3480
8	1800	2230	2400	16800	17600	19800	13800	27100	15800	6580	6930	3470
9	1790	2180	2450	18400	18900	19200	15700	26500	16400	6380	6880	3460
10	1800	2140	2490	20700	20600	19100	17700	24900	16800	6370	6990	3510
11	1800	2120	2480	24000	22700	19300	19700	22700	16700	6540	7030	3710
12	1820	2090	2430	28400	25900	19600	21400	20700	16000	6530	6960	4100
13	1850	2090	2370	33500	31600	20000	22200	18600	14800	6110	6900	4470
14	1900	2080	2310	38400	39800	20400	22200	16000	12700	6000	6850	4830
15	1950	2080	2300	41900	49000	20800	21700	12600	10300	6320	6680	4800
16	2000	2030	2290	44900	56700	21200	21000	10100	8410	7000	6720	4560
17	2000	2080	2360	46800	60100	21400	20200	8910	7430	8100	7350	4550
18	1950	2070	2630	47400	59400	21500	19400	8330	6980	9010	8090	4610
19	1900	2060	3070	46200	55600	20900	18000	7730	6750	9480	8540	4460
20	1880	2040	3490	43700	50400	19700	16500	7050	6780	9570	8730	4170
21	1850	2000	3850	40500	44800	18300	15300	6450	6870	9250	9100	4130
22	1790	2000	4210	37400	39800	17100	14500	6210	6970	9090	9570	4150
23	1810	2000	4460	34600	35700	16400	13900	6270	6670	9110	9620	4060
24	1820	1980	4450	31800	32600	16000	13500	6380	6340	9490	9140	3830
25	1820	1960	4320	29000	30400	15800	13500	6520	6290	10000	8520	3560
26	1840	1940	4170	26500	29200	15600	14700	6920	6320	10400	7830	3410
27	1870	1910	4050	24200	28700	15600	15600	7350	6480	10600	7150	3390
28	1910	1910	4030	22200	28400	15500	16900	7950	6530	10500	6500	3300
29	2000	1890	4240	20500	---	15200	18300	8800	6890	9490	5900	3210
30	2120	1870	5000	19100	---	14800	19700	9570	7540	8460	5250	3110
31	2300	---	5960	18000	---	14500	---	10400	---	7800	4780	---
TOTAL	59340	63950	97060	831780	894600	602300	495500	464340	313850	250070	231530	117490
MEAN	1914	2132	3131	26830	31950	19430	16520	14980	10460	8067	7469	3916
MAX	2300	2530	5960	47400	60100	27600	22200	27200	16800	10600	9620	4830
MIN	1790	1870	1910	7060	16300	14500	12000	6210	6290	6000	4780	3110
CFSM	.14	.16	.23	1.97	2.35	1.43	1.22	1.10	.77	.59	.55	.29
IN.	.16	.17	.27	2.28	2.45	1.65	1.36	1.27	.86	.68	.63	.32

CAL YR 1981 TOTAL 2207390 MEAN 6048 MAX 37600 MIN 1790 CFSM .45 IN 6.04
WTR YR 1982 TOTAL 4421810 MEAN 12110 MAX 60100 MIN 1790 CFSM .89 IN 12.09

02226010 ALTAMAHA RIVER NEAR GARDI, GA.

LOCATION.--Lat 31°37'24", long 81°45'55", Wayne-Long County line, Hydrologic Unit 03070106, 6 mi (10 km) northeast of Gardi, 7 mi (11 km) downstream from Doctortown, and 9 mi (14 km) upstream from Penholoway Creek.
DRAINAGE AREA.--13,600 mi^2 (35,200 km^2), approximately.
PERIOD OF RECORD.--November 1974 to current year.
REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, Dissolved Oxygen, and Specific Conductance by U.S. Geological Survey. Discharge obtained from gaging station 02226000, Altamaha River at Doctortown, Ga.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE (DEG C)	TEMPERATURE, AIR (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT 27...	1600	1860	--	259	7.1	7.4	22.5	24.0	7.0	--
NOV 19...	1345	2070	--	300	7.8	7.8	16.0	25.0	8.7	--
DEC 09...	0900	2420	--	245	7.5	7.7	12.5	6.5	8.9	--
JAN 20...	1200	44300	62	62	6.6	6.7	7.0	18.0	10.8	--
FEB 17...	1000	59800	54	50	6.6	6.6	13.0	17.0	8.1	--
MAR 17...	0930	21300	76	77	6.8	6.8	18.0	20.0	6.6	--
APR 21...	1230	15500	86	87	7.0	7.1	20.5	27.0	--	60
MAY 18...	0730	8560	115	112	7.1	7.2	24.0	23.0	7.1	83
JUN 09...	1200	16300	75	77	6.7	7.0	26.5	28.0	5.0	62
JUL 28...	1025	10500	--	99	6.8	7.1	28.5	27.5	--	63
AUG 18...	1115	7930	110	108	7.0	7.3	28.0	23.5	6.2	79
SEP 28...	1030	3360	190	187	7.6	7.6	23.5	25.0	6.4	75

DATE	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	ALKALINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)
OCT 27...	60	6	--	1.1	--	59	<1
NOV 19...	90	6	--	1.3	<30	61	5
DEC 09...	60	6	--	1.2	<30	50	4
JAN 20...	120	28	--	.6	20	8.0	5
FEB 17...	120	29	--	1.6	80	9.0	6
MAR 17...	100	20	--	1.0	40	19	9
APR 21...	100	13	--	1.5	20	20	7
MAY 18...	60	18	--	.9	<20	28	20
JUN 09...	180	14	--	1.0	20	19	13
JUL 28...	160	16	36	.9	80	23	21
AUG 18...	100	19	22	.5	--	30	18
SEP 28...	80	11	23	1.2	<20	44	13

02226010 ALTAMAHA RIVER NEAR GARDI, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	TANNIN AND LIGNIN (MG/L)
OCT						
27...	.39	.080	--	.090	9.5	2.4
NOV						
19...	.35	.050	--	.110	16	2.1
DEC						
09...	.32	.040	--	.090	8.8	2.4
JAN						
20...	.18	.180	--	.040	9.0	1.4
FEB						
17...	.10	.020	--	.070	10	1.5
MAR						
17...	.20	.070	--	.050	11	1.3
APR						
21...	.28	.020	--	.080	10	2.0
MAY						
18...	.39	.070	--	.100	7.0	3.1
JUN						
09...	.20	<.020	--	.080	14	1.7
JUL						
28...	.17	.030	.70	.080	--	2.4
AUG						
18...	.29	.040	.40	.080	8.5	1.4
SEP						
28...	.27	.040	.20	.090	10	2.0

02226100 PENHOLOWAY CREEK NEAR JESUP, GA.

LOCATION.--Lat 31°34'00", long 81°50'18", Wayne County, Hydrologic Unit 03070106, on downstream side of bridge on U.S. Highway 341, 4 mi (6.4 km) southeast of Jesup, and about 9.5 mi (15.3 km) upstream from mouth.
DRAINAGE AREA.--210 mi^2 (540 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1958 to current year.
GAGE.--Water-stage recorder. Datum of gage is 19.09 ft (5.819 m) National Geodetic Vertical Datum of 1929. Since May 6, 1966, auxiliary water-stage recorder at highway bridge, 2.5 mi (4.0 km) downstream.
REMARKS.--Records good except those below 20 ft^3/s (0.57 m^3/s), which are fair.
AVERAGE DISCHARGE.--24 years, 199 ft^3/s (5.636 m^3/s), 12.87 in/yr (327 mm/yr).
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,420 ft^3/s (125 m^3/s) Sept. 30, 1979, gage height, 14.96 ft (4.560 m); no flow at times most years.
EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,100 ft^3/s (31.2 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	(m^3/s)	Gage height (ft)	(m)
July 20	0600	*1400	39.6	11.68	3.560

Minimum daily discharge, no flow on many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.03	7.8	14	68	18	338	3.8	569	801	67
2	.00	.00	1.0	7.4	13	66	16	263	3.0	432	731	53
3	.00	.00	1.7	5.8	14	63	17	179	2.0	343	620	41
4	.00	.10	1.0	4.5	24	59	22	130	1.5	248	485	31
5	.00	.32	.70	4.1	25	55	23	111	39	164	389	22
6	.00	1.0	.50	3.3	27	68	52	102	80	146	309	16
7	.00	.75	.43	3.1	29	163	46	100	84	158	220	11
8	.00	.26	.32	6.2	28	227	57	95	69	191	158	8.3
9	.00	.30	.32	5.6	28	244	118	87	49	243	124	18
10	.26	.60	.20	4.0	33	245	146	77	30	331	165	76
11	2.6	1.7	.18	3.2	29	224	185	66	16	445	144	222
12	2.6	1.8	.16	4.0	34	189	207	55	7.9	508	121	490
13	.75	.95	.08	17	85	146	203	45	4.3	499	115	810
14	.29	.75	.15	65	99	111	183	36	3.1	455	100	876
15	.18	.60	1.3	113	105	88	147	26	2.4	793	85	857
16	.07	.21	2.3	107	250	71	114	18	10	1240	104	775
17	.00	.26	1.8	97	371	59	92	12	105	1350	202	619
18	.00	.20	1.0	83	451	54	85	9.5	169	1380	326	476
19	.00	.16	.95	69	434	48	80	9.4	222	1350	544	385
20	.00	.18	.60	59	383	44	77	6.0	254	1380	654	320
21	.00	.12	.65	47	334	39	76	3.8	286	1260	586	255
22	.00	.10	.60	38	263	34	71	3.3	298	1090	491	206
23	.00	.12	.43	33	176	30	64	2.8	304	988	412	171
24	.00	.14	.50	33	121	35	57	2.0	310	1050	337	144
25	.00	.16	.60	31	94	46	64	3.2	309	1060	265	120
26	.00	.12	.75	28	81	46	244	12	328	911	204	104
27	.00	.12	.55	23	74	40	354	6.7	404	792	167	93
28	.00	.75	.50	21	71	34	400	6.7	446	668	140	79
29	.23	.12	1.1	19	---	29	400	4.5	630	537	118	64
30	.00	.04	1.2	17	---	25	377	4.7	713	491	99	54
31	.00	---	2.7	15	---	21	---	4.6	---	673	83	---
TOTAL	6.98	11.93	24.30	974.0	3690	2671	3995	1819.2	5183.0	21745	9299	7463.3
MEAN	.23	.40	.78	31.4	132	86.2	133	58.7	173	701	300	249
MAX	2.6	1.8	2.7	113	451	245	400	338	713	1380	801	876
MIN	.00	.00	.03	3.1	13	21	16	2.0	1.5	146	83	8.3
CFSM	.001	.002	.004	.15	.63	.41	.63	.28	.82	3.34	1.43	1.19
IN.	.00	.00	.00	.17	.65	.47	.71	.32	.92	3.85	1.65	1.32

CAL YR 1981 TOTAL 7083.05 MEAN 19.4 MAX 384 MIN .00 CFSM .09 IN 1.25
WTR YR 1982 TOTAL 56882.71 MEAN 156 MAX 1380 MIN .00 CFSM .74 IN 10.08

02226100 PENHOLOWAY CREEK NEAR JESUP, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--January 1972 to current year.
REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE (DEG C)	TEMPERATURE, AIR (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT										
27...	1500	.00	--	178	6.9	7.3	22.0	32.0	6.2	--
NOV										
19...	1200	.16	--	152	7.0	6.9	15.5	26.0	7.4	--
DEC										
08...	1430	.32	--	166	7.1	7.0	10.0	18.0	7.4	--
JAN										
20...	1100	59	--	110	3.9	3.9	10.5	19.0	8.6	--
21...	1710	47	--	--	--	--	13.0	--	--	--
FEB										
16...	1430	265	87	84	4.0	4.0	16.0	27.0	6.8	--
16...	1435	265	87	--	4.0	--	16.0	27.0	6.8	--
MAR										
03...	1710	65	--	--	--	--	12.0	--	--	--
16...	1300	71	110	108	3.8	3.9	19.0	25.0	6.0	--
30...	0920	26	--	--	--	--	12.5	--	--	--
APR										
21...	1130	77	86	88	3.9	4.0	20.0	27.0	--	60
21...	1635	76	--	--	--	--	19.0	--	--	--
MAY										
17...	1030	13	85	86	4.0	4.0	20.5	27.0	7.8	85
24...	1535	2.0	--	--	--	--	24.0	--	--	--
JUN										
09...	1100	50	72	74	3.9	4.0	23.0	29.0	5.0	58
AUG										
04...	0830	520	--	--	--	--	24.0	--	--	--
18...	1000	310	--	62	3.8	4.0	23.5	--	5.2	--
SEP										
30...	1435	52	--	--	--	--	20.0	--	--	--

DATE	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	TURBIDITY (FTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	HARDNESS (MG/L AS CACO3)	ACIDITY (MG/L AS H)	ACIDITY (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)
OCT										
27...	150	3	--	>7.2	--	--	--	--	--	--
NOV										
19...	150	4	--	1.6	<30	--	--	--	--	--
DEC										
08...	150	3	--	1.7	<30	--	--	--	--	--
JAN										
20...	160	10	--	.8	40	--	--	--	--	--
FEB										
16...	200	5	--	1.0	4900	--	--	--	--	--
16...	140	--	4.1	--	--	14	--	--	3.0	1.5
MAR										
16...	240	5	--	1.0	50	--	--	--	--	--
APR										
21...	240	2	--	1.6	<20	--	--	--	--	--
MAY										
17...	50	4	--	1.0	20	--	--	--	--	--
JUN										
09...	70	4	--	1.3	20	--	--	--	--	--
AUG										
18...	340	--	50	--	--	5	.6	10	1.0	.5

02226100 PENHOLOWAY CREEK NEAR JESUP, GA.—Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)
OCT										
27...	--	--	--	--	32	--	--	--	--	--
NOV										
19...	--	--	--	--	19	--	--	--	--	--
DEC										
08...	--	--	--	--	30	--	--	--	--	--
JAN										
20...	--	--	--	--	--	--	--	--	--	--
FEB										
16...	--	--	--	--	--	--	--	--	--	--
16...	7.4	53	1.0	.7	<1.0	13	8.3	<.1	10	0
MAR										
16...	--	--	--	--	--	--	--	--	--	--
APR										
21...	--	--	--	--	<1.0	--	--	--	--	--
MAY										
17...	--	--	--	--	<1.0	--	--	--	--	--
JUN										
09...	--	--	--	--	<1.0	--	--	--	--	--
AUG										
18...	2.3	--	.5	<.1	<1.0	7.0	5.4	.2	8.2	170

DATE	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT										
27...	--	.02	--	<.020	--	--	--	.800	--	11
NOV										
19...	--	.11	--	.020	--	--	--	.500	--	20
DEC										
08...	--	.06	--	<.020	--	--	--	.660	--	20
JAN										
20...	--	.06	--	.020	--	--	--	<.020	--	40
FEB										
16...	--	.02	--	.020	--	--	--	.020	--	42
16...	.00	.49	.45	.220	.170	.57	.46	.080	.040	35
MAR										
16...	--	<.02	--	.060	--	--	--	.020	--	43
APR										
21...	--	<.02	--	<.020	--	--	--	<.020	--	40
MAY										
17...	--	<.02	--	.070	--	--	--	.020	--	48
JUN										
09...	--	.04	--	.020	--	--	--	.040	--	44
AUG										
18...	142	<.10	<.10	.050	.050	3.00	1.1	.030	.010	--

02226100 PENHOLOWAY CREEK NEAR JESUP, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)
FEB							
16...	730	1	1	3	<10	0	450
AUG							
18...	790	1	1	<1	10	5	1500

DATE	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	SELENIUM, DISSOLVED (UG/L AS SE)	ZINC, DISSOLVED (UG/L AS ZN)
FEB							
16...	0	0	36	.2	.2	<1	40
AUG							
18...	6	4	13	.1	.1	<1	18

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)
JAN					
21...	1710	47	13.0	5	.63
MAR					
03...	1710	65	12.0	6	1.1
30...	0920	26	12.5	10	.70
APR					
21...	1635	76	19.0	10	2.1
MAY					
24...	1535	2.0	24.0	15	.08
AUG					
04...	0830	520	24.0	26	37
SEP					
30...	1435	52	20.0	27	3.8

02226160 ALTAMAHA RIVER NEAR EVERETT CITY, GA.

(National stream-quality accounting network station)
(Radiochemical program station)
(National Pesticide water monitoring program)

LOCATION.--Lat 31°25'37", long 81°36'20", Glynn-McIntosh County line, Hydrologic Unit 03070106, at Seaboard Coast Line Railroad bridge, 3 mi (5 km) northeast of Everett City, and 15 mi (24 km) northwest of Brunswick.

DRAINAGE AREA.--14,000 mi^2 (36,300 km^2), approximately.

PERIOD OF RECORD.--October 1969 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1969 to current year.
pH: November 1969 to current year.
WATER TEMPERATURES: October 1969 to current year.
DISSOLVED OXYGEN: April 1970 to current year.

REMARKS.--Prior to 1978, water-quality samples for the National stream-quality accounting network, Radiochemical program, and National Pesticide water monitoring program were collected at, and published for, the Altamaha River at Doctortown, Ga. (station number 02226000). Discharge obtained from gaging station 02226000, Altamaha River at Doctortown, Ga.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum recorded, 321 micromhos Oct. 7, 1981; minimum recorded, 32 micromhos Apr. 9, 1973.
pH: Maximum recorded, 8.9 units Oct. 21, 22, 1971; minimum recorded, 5.3 units Dec. 12, 1976.
WATER TEMPERATURE: Maximum recorded, 33.5°C July 16-18, 1981; minimum recorded, 3.0°C Jan. 10, 11, 1970, Jan. 20, 21, 1977.
DISSOLVED OXYGEN: Maximum recorded, 12.3 mg/L Feb. 3, 10, 11, 1977; minimum recorded, 2.7 mg/L Oct. 8, 1977.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum recorded, 321 micromhos Oct. 7; minimum, 58 micromhos Feb. 17, 19, 20.
pH: Maximum, 7.6 units Sept. 7, 8; minimum, 6.5 units Jan. 7, 9, 18-21, 23, Feb. 16-22.
WATER TEMPERATURE: Maximum recorded, 30.5°C Aug. 28; minimum, 6.5°C Jan. 12-15, 18, 19.
DISSOLVED OXYGEN: Maximum, 11.8 mg/L Dec. 23; minimum recorded, 4.5 mg/L June 11.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	TEMPER-ATURE, AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT										
27...	1240	1840	297	280	7.6	7.6	22.0	30.5	7.2	--
27...	1245	1840	297	315	7.6	7.7	22.0	30.5	7.2	--
NOV										
19...	1100	2070	260	260	7.4	7.6	15.5	24.5	8.2	--
DEC										
08...	1530	2360	--	238	7.6	7.6	13.0	18.0	9.8	--
JAN										
20...	0830	46500	65	65	6.6	6.7	7.5	15.0	10.2	--
20...	0835	46500	65	65	6.6	6.8	7.5	15.0	10.2	--
FEB										
16...	1525	50000	62	59	6.6	6.5	14.0	27.0	8.8	--
16...	1530	50000	62	--	6.6	--	14.0	27.0	8.8	--
MAR										
16...	1430	20800	--	82	6.6	6.6	19.5	23.0	6.8	--
APR										
21...	0925	16600	81	83	7.0	7.0	20.5	22.5	--	--
21...	0930	16600	81	78	7.0	6.9	20.5	22.5	--	--
MAY										
17...	1130	10100	99	102	6.8	7.4	23.0	28.0	6.6	73
JUN										
09...	0855	15800	84	82	6.8	6.9	26.0	24.0	5.0	62
09...	0900	15800	84	87	6.8	6.9	26.0	24.0	5.0	62
JUL										
28...	0755	10600	92	89	6.8	6.9	27.5	29.0	--	--
28...	0800	10600	92	85	6.8	7.1	27.5	--	--	72
AUG										
18...	0755	7230	120	120	7.0	7.3	28.0	29.0	5.7	--
18...	0800	7230	120	126	7.0	7.1	28.0	29.0	5.7	73
SEP										
28...	0830	3400	166	167	7.4	7.4	23.0	21.0	6.4	74

02226160 ALTAMAHA RIVER NEAR EVERETT CITY, GA.—Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	TURBIDITY (FTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS (MG/L AS CACO3)	HARDNESS NONCARBONATE (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)
OCT												
27...	100	5	--	.7	--	--	--	--	--	--	--	--
27...	--	--	4.4	--	--	28	280	52	.00	16	2.8	45
NOV												
19...	70	6	--	1.5	<35	--	--	--	--	--	--	--
DEC												
08...	70	6	--	1.1	<30	--	--	--	--	--	--	--
JAN												
20...	160	26	--	.8	40	--	--	--	--	--	--	--
20...	--	--	27	--	--	--	500	15	3.0	4.0	1.1	6.7
FEB												
16...	120	21	--	.8	70	--	--	--	--	--	--	--
MAR												
16...	120	17	--	.6	<20	--	--	--	--	--	--	--
APR												
21...	100	12	--	1.6	70	--	--	--	--	--	--	--
21...	--	--	15	--	--	65	130	23	4.0	6.7	1.5	8.5
MAY												
17...	50	13	--	.7	50	--	--	--	--	--	--	--
JUN												
09...	160	13	--	.4	50	--	--	--	--	--	--	--
09...	--	--	16	--	--	40	45	21	.00	6.2	1.3	7.5
JUL												
28...	200	13	--	1.1	80	--	--	--	--	--	--	--
28...	--	--	9.2	--	--	K19	370	21	1.0	6.1	1.3	9.6
AUG												
18...	120	15	--	.4	--	--	--	--	--	--	--	--
18...	--	--	19	.4	--	66	840	28	.00	8.7	1.6	12
SEP												
28...	120	10	--	.9	<20	--	--	--	--	--	--	--

DATE	PERCENT SODIUM	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER DAY)
OCT											
27...	--	--	--	63	--	31	--	--	--	--	--
27...	64	2.9	2.6	61	38	29	.2	12	232	183	1150
NOV											
19...	--	--	--	58	--	31	--	--	--	--	--
DEC											
08...	--	--	--	50	--	25	--	--	--	--	--
JAN											
20...	--	--	--	8.0	--	7.1	--	--	--	--	--
20...	47	.8	1.7	12	11	6.6	<.1	10	74	49	9290
FEB											
16...	--	--	--	11	--	3.7	--	--	--	--	--
MAR											
16...	--	--	--	19	--	7.5	--	--	--	--	--
APR											
21...	--	--	--	19	--	13	--	--	--	--	--
21...	43	.8	1.9	19	7.0	7.3	<.1	9.5	73	54	3270
MAY											
17...	--	--	--	21	--	15	--	--	--	--	--
JUN											
09...	--	--	--	21	--	7.0	--	--	--	--	--
09...	42	.8	1.6	23	6.0	7.4	<.1	10	80	54	3410
JUL											
28...	--	--	--	20	--	16	--	--	--	--	--
28...	49	1.0	1.2	20	8.0	9.2	.1	11	96	60	2750
AUG											
18...	--	--	--	30	--	10	--	--	--	--	--
18...	46	1.0	2.0	31	11	--	.2	12	97	--	1890
SEP											
28...	--	--	--	39	--	17	--	--	--	--	--

02226160 ALTAMAHA RIVER NEAR EVERETT CITY, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT												
27...	.37	--	.080	--	--	.080	--	--	11	--	--	--
27...	--	.37	--	.060	.40	.070	.050	.050	--	10	50	100
NOV												
19...	.35	--	.040	--	--	.100	--	--	10	--	--	--
DEC												
08...	.32	--	.020	--	--	.080	--	--	7.8	--	--	--
JAN												
20...	.12	--	<.020	--	--	.040	--	--	11	--	--	--
20...	--	.13	--	.040	<.10	.050	.030	.020	--	--	--	50
FEB												
16...	.07	--	<.020	--	--	.060	--	--	13	--	--	--
MAR												
16...	.11	--	.060	--	--	.070	--	--	11	--	--	--
APR												
21...	.20	--	.020	--	--	.080	--	--	10	--	--	--
21...	--	.56	--	.050	.40	.080	.030	.030	--	16	717	69
MAY												
17...	.22	--	.050	--	--	.090	--	--	9.0	--	--	--
JUN												
09...	.20	--	.020	--	--	.080	--	--	13	--	--	--
09...	--	.16	--	.020	.80	.070	.030	.030	--	13	555	89
JUL												
28...	.11	--	.040	--	--	.080	--	--	--	--	--	--
28...	--	.18	--	.050	.50	.120	.050	.040	--	21	601	67
AUG												
18...	.26	--	.040	--	--	.080	--	--	--	--	--	--
18...	--	.24	--	.030	.60	--	.050	.030	7.0	35	683	64
SEP												
28...	.23	--	.040	--	--	.090	--	--	11	--	--	--

02226160 ALTAMAHA RIVER NEAR EVERETT CITY, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA)	BARIUM, DIS-SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO)	COBALT, DIS-SOLVED (UG/L AS CO)
OCT 27...	1	1	100	30	<1	4	10	<10	7	<1
JAN 20...	1	0	100	46	1	2	20	10	<1	<1
APR 21...	1	1	100	42	<1	<1	20	10	<1	<1
JUL 28...	1	1	100	37	1	<1	10	10	1	3

DATE	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)
OCT 27...	14	3	470	200	5	1	80	63	<.1
JAN 20...	7	4	720	220	8	<1	60	31	<.1
APR 21...	9	2	1600	850	4	<1	60	41	<.1
JUL 28...	7	5	1900	920	28	4	130	81	<.1

DATE	MERCURY DIS-SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)	SILVER, DIS-SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT 27...	<.1	5	<1	<1	<1	<1	<1	50	7
JAN 20...	<.1	5	1	<1	<1	<1	<1	60	25
APR 21...	<.1	5	5	<1	<1	<1	<1	10	8
JUL 28...	<.1	1	3	<1	<1	<1	<1	30	10

DATE	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L)	URANIUM DIS-SOLVED, EXTRAC-TION (UG/L)
APR 21...	<1.7	<.9	2.8	<1.0	2.6	<1.0	.12	.14
AUG 18...	1.5	1.2	2.7	1.7	2.6	1.7	.04	.01

02226160 ALTAMAHA RIVER NEAR EVERETT CITY, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	PCB, TOTAL (UG/L)	NAPHTHALENES, POLYCHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLORDANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)	DIAZINON, TOTAL (UG/L)	DIELDRIN TOTAL (UG/L)	ENDOSULFAN, TOTAL (UG/L)
FEB										
16...	<.10	<.10	<.01	<.10	<.01	<.01	<.01	<.01	<.01	<.01

DATE	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTACHLOR, TOTAL (UG/L)	HEPTACHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALATHION, TOTAL (UG/L)	METHOXYCHLOR, TOTAL (UG/L)	METHYL PARATHION, TOTAL (UG/L)	METHYL TRITHION, TOTAL (UG/L)
FEB									
16...	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01

DATE	MIREX, TOTAL (UG/L)	PARATHION, TOTAL (UG/L)	PERTHANE TOTAL (UG/L)	TOXAPHENE, TOTAL (UG/L)	TOTAL TRITHION (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
FEB									
16...	<.01	<.01	<.01	<0	<.01	<.01	<.01	<.01	<.01

DATE	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG)	PCN, TOTAL IN BOTTOM MATERIAL (UG/KG)	ALDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	CHLORDANE, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDD, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDE, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDT, TOTAL IN BOTTOM MATERIAL (UG/KG)	DIELDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	ENDOSULFAN, TOTAL IN BOTTOM MATERIAL (UG/KG)
OCT									
27...	1	<1.0	<.1	<1.0	<.1	<.1	<.1	<.1	<.1
APR									
21...	<1	<1.0	<.1	<1.0	<.1	<.1	<.1	<.1	<.1

DATE	ENDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR, TOTAL IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL IN BOTTOM MATERIAL (UG/KG)	METHOXYCHLOR, TOT. IN BOTTOM MATL. (UG/KG)	MIREX, TOTAL IN BOTTOM MATERIAL (UG/KG)	PERTHANE IN BOTTOM MATERIL (UG/KG)	TOXAPHENE, TOTAL IN BOTTOM MATERIAL (UG/KG)
OCT								
27...	<.1	<.1	<.1	<.1	<.1	<.1	<.10	<1.0
APR								
21...	<.1	<.1	<.1	<.1	<.1	<.1	<1.00	<10

02226160 ALTAMAHA RIVER NEAR EVERETT CITY, GA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	268	259	---	---	118	104	83	79	69	68
2	---	---	---	---	---	---	103	101	84	82	70	66
3	---	---	---	---	---	---	103	93	84	81	70	67
4	---	---	---	---	248	243	94	89	85	83	71	67
5	---	---	---	---	243	238	88	82	85	84	70	66
6	313	295	---	---	238	232	89	83	86	83	71	67
7	321	300	---	---	232	229	90	87	86	85	72	67
8	316	311	---	---	230	224	91	89	87	82	73	68
9	309	280	231	229	231	224	91	89	85	81	74	70
10	303	272	233	231	231	229	91	87	83	78	74	70
11	306	300	---	---	251	229	89	84	80	77	74	70
12	296	275	---	---	251	244	85	80	77	74	74	70
13	273	264	---	---	245	243	80	75	74	68	74	70
14	269	264	---	---	258	245	76	73	72	66	---	---
15	271	268	---	---	258	254	73	72	69	61	75	71
16	---	---	---	---	256	225	---	---	63	60	75	72
17	---	---	---	---	218	175	---	---	64	58	76	72
18	---	---	---	---	170	152	69	64	62	59	76	72
19	---	---	262	260	173	165	68	64	63	58	75	73
20	---	---	265	262	174	160	68	64	64	58	77	74
21	---	---	267	265	157	148	68	64	64	59	78	76
22	---	---	270	267	147	133	68	67	65	59	82	77
23	---	---	272	269	134	127	68	64	---	---	82	77
24	---	---	273	270	129	128	69	65	---	---	79	74
25	---	---	273	271	129	124	70	66	---	---	75	71
26	301	274	---	---	123	119	71	69	---	---	75	71
27	303	278	---	---	120	118	73	71	---	---	77	75
28	280	256	---	---	117	116	74	69	---	---	77	76
29	269	254	---	---	117	115	77	72	---	---	76	72
30	271	266	---	---	119	116	79	75	---	---	75	71
31	269	266	---	---	119	118	81	77	---	---	74	71
MONTH	321	254	273	229	258	115	118	64	87	58	82	66

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	78	72	77	72	100	94	---	---	94	88	102	98
2	85	79	75	70	94	89	---	---	99	94	103	100
3	89	84	73	68	89	86	---	---	108	100	123	104
4	89	86	70	67	93	87	---	---	109	106	126	123
5	92	88	70	66	93	89	---	---	109	106	153	125
6	95	90	70	66	93	90	---	---	111	107	163	136
7	---	---	71	66	94	90	---	---	118	110	137	122
8	---	---	70	66	91	86	108	106	125	118	133	126
9	---	---	71	66	88	83	118	109	128	125	132	117
10	---	---	71	67	84	80	121	118	129	124	115	102
11	---	---	72	69	82	79	122	116	125	119	137	103
12	76	73	76	71	82	79	116	106	124	120	143	138
13	75	70	79	75	83	79	109	105	127	123	142	132
14	74	70	85	79	84	81	109	104	130	127	133	124
15	72	69	89	83	88	84	107	99	129	127	127	119
16	72	69	96	89	95	88	110	107	130	126	120	114
17	72	70	105	97	100	95	108	103	130	126	119	115
18	78	73	110	105	102	98	104	96	128	115	124	118
19	80	75	112	108	110	102	99	91	116	103	127	124
20	81	77	118	112	116	109	92	87	105	99	135	127
21	83	80	123	118	116	112	87	83	102	98	146	136
22	87	83	130	124	115	112	86	83	107	99	150	146
23	90	87	136	131	118	109	88	84	107	104	153	149
24	91	87	137	134	118	115	87	84	107	102	156	152
25	92	90	137	129	117	113	89	86	104	90	155	153
26	90	81	130	115	118	114	89	87	88	84	160	156
27	84	80	116	114	116	111	92	89	84	83	160	156
28	84	79	116	112	---	---	94	92	86	83	166	160
29	82	77	113	106	---	---	97	92	95	84	172	166
30	80	74	107	101	---	---	97	92	101	96	179	173
31	---	---	102	99	---	---	98	89	98	94	---	---
MONTH	95	69	137	66	118	79	122	83	130	83	179	98
YEAR	321	58										

02226160 ALTAMAHA RIVER NEAR EVERETT CITY, GA.—Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	7.3	7.0	7.5	7.4	---	---	7.1	7.0	6.8	6.8	6.8	6.8
2	7.2	7.1	---	---	---	---	7.0	6.9	6.8	6.8	6.8	6.8
3	7.4	7.2	---	---	---	---	7.0	6.8	6.8	6.8	6.8	6.8
4	---	---	---	---	7.4	7.3	6.8	6.7	6.8	6.8	6.8	6.8
5	7.4	7.1	---	---	7.4	7.3	6.8	6.6	6.8	6.8	6.8	6.8
6	7.3	7.3	---	---	7.4	7.4	6.6	6.6	6.8	6.8	6.8	6.8
7	7.3	7.3	---	---	7.4	7.4	6.6	6.5	6.8	6.8	6.8	6.8
8	7.3	7.3	---	---	7.4	7.4	6.6	6.6	6.8	6.8	6.8	6.8
9	7.3	7.3	7.3	7.3	7.4	7.3	6.6	6.5	6.8	6.8	6.8	6.8
10	7.4	7.3	7.3	7.2	7.4	7.4	6.6	6.6	6.8	6.8	6.8	6.8
11	7.3	7.3	---	---	7.4	7.4	6.6	6.6	6.8	6.7	6.8	6.8
12	7.3	7.3	---	---	7.4	7.4	6.6	6.6	6.7	6.7	6.8	6.8
13	7.4	7.2	---	---	7.4	7.4	6.6	6.6	6.7	6.7	6.8	6.8
14	7.4	7.3	---	---	7.4	7.3	6.6	6.6	6.7	6.7	---	---
15	7.4	7.2	---	---	7.4	7.3	6.6	6.6	6.7	6.6	6.8	6.7
16	---	---	---	---	7.4	7.3	---	---	6.7	6.5	6.8	6.7
17	---	---	---	---	7.3	7.3	---	---	6.6	6.5	6.8	6.7
18	---	---	---	---	7.4	7.3	6.7	6.5	6.6	6.5	6.7	6.7
19	---	---	7.5	7.4	7.4	7.4	6.7	6.5	6.6	6.5	6.7	6.7
20	---	---	7.5	7.4	7.5	7.4	6.7	6.5	6.6	6.5	6.7	6.7
21	---	---	7.4	7.4	7.5	7.4	6.6	6.5	6.6	6.5	6.8	6.7
22	---	---	7.4	7.4	7.4	7.3	6.6	6.6	6.6	6.5	6.8	6.7
23	---	---	7.4	7.4	7.4	7.2	6.6	6.5	---	---	6.8	6.7
24	---	---	7.4	7.4	7.3	7.2	6.6	6.6	---	---	6.8	6.8
25	---	---	7.4	7.4	7.1	7.1	6.6	6.6	---	---	6.8	6.7
26	7.4	7.3	---	---	7.1	7.0	6.7	6.6	---	---	6.8	6.7
27	7.4	7.4	---	---	7.1	7.0	6.7	6.7	---	---	6.8	6.8
28	7.4	7.4	---	---	7.1	7.0	6.8	6.7	---	---	6.9	6.8
29	7.5	7.4	---	---	7.2	7.0	6.8	6.7	---	---	6.9	6.8
30	7.4	7.4	---	---	7.2	7.1	6.8	6.7	---	---	6.9	6.8
31	7.5	7.4	---	---	7.2	7.0	6.8	6.8	---	---	6.9	6.9
MONTH	7.5	7.0	7.5	7.2	7.5	7.0	7.1	6.5	6.8	6.5	6.9	6.7

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	6.9	6.9	6.8	6.8	6.9	6.8	---	---	6.8	6.7	7.2	7.1
2	6.9	6.9	6.8	6.8	6.9	6.8	---	---	6.9	6.8	7.3	7.2
3	6.9	6.9	6.8	6.8	6.8	6.8	---	---	6.9	6.8	7.3	7.2
4	6.9	6.9	6.8	6.7	6.9	6.8	---	---	6.9	6.9	7.4	7.2
5	7.0	6.9	6.7	6.7	6.9	6.8	---	---	6.9	6.9	7.4	7.3
6	7.0	7.0	6.7	6.7	6.8	6.7	---	---	7.0	6.9	7.4	7.3
7	---	---	6.8	6.7	6.8	6.7	---	---	7.0	6.9	7.6	7.3
8	---	---	6.8	6.7	6.7	6.7	7.1	7.1	7.0	7.0	7.6	7.4
9	---	---	6.8	6.7	6.7	6.7	7.1	7.1	7.1	7.0	7.5	7.3
10	---	---	7.0	6.8	6.7	6.7	7.1	7.1	7.1	7.1	7.3	7.0
11	---	---	6.8	6.7	6.7	6.7	7.1	7.0	7.1	7.0	7.1	7.0
12	6.8	6.8	6.8	6.8	6.7	6.7	7.0	6.9	7.1	7.0	7.1	7.1
13	6.8	6.7	6.8	6.8	6.8	6.7	6.9	6.9	7.1	7.0	7.1	7.0
14	6.8	6.7	6.9	6.8	6.8	6.8	6.9	6.9	7.1	7.0	7.0	6.9
15	6.8	6.7	6.9	6.9	6.9	6.8	6.9	6.8	7.1	7.1	7.0	6.9
16	6.8	6.7	6.9	6.9	7.0	6.9	6.9	6.8	7.2	7.1	6.9	6.9
17	6.8	6.7	6.9	6.9	7.0	6.9	6.9	6.8	7.2	7.1	6.9	6.9
18	6.8	6.8	7.0	6.9	7.0	7.0	6.8	6.7	7.2	7.2	7.0	6.9
19	6.8	6.8	7.0	6.9	7.0	7.0	6.7	6.7	7.2	7.0	7.1	7.0
20	6.9	6.8	7.0	6.9	7.1	7.0	6.7	6.6	7.1	7.0	7.1	7.0
21	6.9	6.8	7.0	7.0	7.2	7.1	6.7	6.6	7.0	6.9	7.2	7.1
22	6.9	6.9	7.1	7.0	7.2	7.0	6.6	6.6	7.0	6.9	7.2	7.2
23	6.9	6.9	7.1	7.1	7.1	7.0	6.7	6.6	6.9	6.9	7.3	7.2
24	7.0	6.9	7.2	7.1	7.0	7.0	6.7	6.7	6.9	6.8	7.3	7.3
25	7.0	7.0	7.2	7.1	7.1	7.0	6.7	6.7	6.9	6.8	7.3	7.3
26	7.1	6.9	7.2	7.0	7.1	7.0	6.7	6.7	6.9	6.8	7.4	7.3
27	6.9	6.8	7.1	7.0	7.1	7.0	6.7	6.7	6.9	6.9	7.4	7.3
28	6.9	6.8	7.1	7.0	---	---	6.7	6.7	6.9	6.9	7.4	7.3
29	6.8	6.8	7.1	7.0	---	---	6.7	6.7	7.0	6.9	7.5	7.3
30	6.8	6.8	7.0	7.0	---	---	6.7	6.7	7.1	7.0	7.4	7.3
31	---	---	7.0	6.9	---	---	6.7	6.7	7.2	7.1	---	---
MONTH	7.1	6.7	7.2	6.7	7.2	6.7	7.1	6.6	7.2	6.7	7.6	6.9
YEAR	7.6	6.5										

02226160 ALTAMAHA RIVER NEAR EVERETT CITY, GA.--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	19.5	19.0	---	---	12.0	11.5	12.5	11.5	12.0	11.5
2	---	---	---	---	---	---	11.5	11.5	12.5	12.0	12.0	11.0
3	---	---	---	---	---	---	12.5	11.5	12.5	12.0	13.0	11.5
4	---	---	---	---	16.0	15.0	13.0	12.5	12.5	12.0	14.0	12.5
5	---	---	---	---	14.5	13.5	12.0	11.5	12.5	12.0	14.5	13.5
6	25.5	23.0	---	---	13.5	12.5	11.5	11.0	13.5	12.5	14.5	14.0
7	25.0	24.0	---	---	13.0	12.0	12.5	11.5	13.5	12.5	15.5	14.5
8	24.5	23.0	---	---	13.5	12.0	12.5	12.5	13.0	12.5	14.5	13.5
9	23.0	22.5	19.0	18.0	13.0	11.5	12.5	11.5	13.5	12.5	14.0	13.0
10	22.5	22.0	18.5	17.5	11.5	10.0	11.5	9.5	14.0	13.5	15.0	13.5
11	22.0	21.0	---	---	10.5	9.5	9.5	7.0	13.5	13.0	16.0	14.5
12	22.0	20.5	---	---	10.0	9.0	7.0	6.5	13.0	12.5	17.0	15.5
13	21.5	20.0	---	---	10.0	9.0	7.0	6.5	13.0	12.0	18.0	16.5
14	20.5	19.5	---	---	10.5	10.0	7.0	6.5	13.0	12.0	---	---
15	20.5	19.0	---	---	11.5	10.5	6.5	6.5	13.5	12.5	19.5	18.5
16	---	---	---	---	11.5	10.5	---	---	14.5	13.0	19.5	19.0
17	---	---	---	---	11.0	10.0	---	---	15.0	13.5	20.0	19.0
18	---	---	---	---	11.0	10.0	7.0	6.5	14.5	13.5	20.5	19.5
19	---	---	16.0	15.5	10.0	9.0	7.5	6.5	14.0	13.5	21.0	20.0
20	---	---	16.5	15.5	8.5	8.0	8.5	7.0	14.5	13.0	21.5	20.5
21	---	---	15.0	14.0	8.0	7.0	9.5	8.0	14.5	13.0	22.0	21.0
22	---	---	14.5	13.5	9.0	7.5	9.0	9.0	14.5	13.5	22.5	21.5
23	---	---	14.0	13.0	10.5	9.0	10.5	9.0	---	---	21.5	20.5
24	---	---	14.0	13.0	11.0	10.0	10.5	10.0	---	---	20.5	19.5
25	---	---	14.0	13.0	11.5	11.0	10.0	9.5	---	---	19.5	19.0
26	21.5	20.5	---	---	11.0	11.0	10.0	9.0	---	---	19.5	19.0
27	22.0	21.0	---	---	11.0	11.0	9.0	8.5	---	---	18.5	17.0
28	21.5	20.0	---	---	11.0	11.0	9.0	8.0	---	---	17.0	15.0
29	21.5	20.0	---	---	11.5	11.0	9.5	8.5	---	---	15.0	14.5
30	21.0	20.0	---	---	11.5	11.0	10.5	9.5	---	---	16.0	14.5
31	20.5	19.5	---	---	11.5	11.0	11.5	10.5	---	---	17.0	16.0
MONTH	25.5	19.0	19.5	13.0	16.0	7.0	13.0	6.5	15.0	11.5	22.5	11.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	18.0	16.5	19.5	18.0	27.0	26.5	---	---	28.0	27.5	28.5	27.5
2	18.5	17.5	20.0	19.0	27.5	26.5	---	---	28.0	27.0	29.0	27.5
3	19.0	18.0	20.5	19.0	27.5	26.5	---	---	28.5	27.0	29.0	28.0
4	19.0	18.0	21.0	20.0	27.5	27.0	---	---	28.5	27.5	29.5	28.0
5	18.5	18.0	21.0	20.0	27.5	26.5	---	---	28.0	27.5	28.5	28.0
6	18.5	18.0	21.0	20.0	27.5	26.5	---	---	28.0	27.5	29.0	27.0
7	---	---	21.0	20.0	27.0	26.0	---	---	28.5	27.5	29.5	27.0
8	---	---	21.5	20.5	27.0	25.5	29.0	28.5	29.0	28.0	28.0	27.0
9	---	---	21.5	20.5	27.0	26.0	29.0	27.5	29.0	28.0	27.0	26.0
10	---	---	21.5	20.5	27.5	26.0	28.5	27.5	29.0	28.0	26.0	25.5
11	---	---	21.5	20.5	27.5	26.5	28.5	27.0	29.5	28.0	26.5	25.5
12	16.5	16.0	22.0	21.0	27.0	26.0	28.0	27.0	29.5	28.0	26.5	25.5
13	17.0	15.5	22.0	21.0	26.5	26.0	28.5	27.0	29.5	28.5	27.0	26.0
14	17.5	16.5	22.5	21.5	26.5	25.5	28.0	27.0	29.5	28.5	27.5	26.0
15	18.5	17.5	23.0	22.0	27.0	25.5	28.0	26.5	29.5	28.5	27.5	26.5
16	19.5	18.5	23.0	22.0	27.5	26.5	27.5	26.5	29.0	28.5	28.0	26.5
17	20.5	19.5	24.0	22.5	26.5	26.0	27.0	26.5	28.5	28.0	28.5	27.5
18	20.5	20.0	24.5	23.5	26.0	25.0	27.0	26.5	28.0	27.5	28.5	27.5
19	20.0	19.5	24.5	23.5	26.5	25.0	27.5	26.0	27.5	27.0	28.5	27.5
20	20.5	19.5	25.0	23.5	27.0	26.0	27.5	26.0	27.5	26.5	28.5	27.5
21	21.5	20.0	25.0	24.0	27.5	26.5	27.5	26.5	28.0	27.0	28.0	27.0
22	21.5	20.5	26.0	24.5	27.0	26.5	27.0	26.5	28.0	27.0	27.0	26.0
23	21.0	19.5	26.0	25.0	27.5	26.5	27.0	26.5	28.0	27.0	26.5	25.0
24	19.5	19.0	26.5	25.5	28.0	26.5	27.0	26.5	28.5	27.0	26.0	24.5
25	19.0	18.5	27.0	25.5	28.0	27.0	27.5	26.0	29.0	28.0	25.0	24.0
26	19.5	18.5	26.0	25.5	28.5	27.0	28.0	27.0	29.5	28.5	24.5	23.5
27	20.5	19.5	26.5	25.5	28.0	27.0	28.0	27.0	30.0	29.0	24.5	23.0
28	21.0	20.0	27.5	26.0	---	---	28.5	27.5	30.5	29.0	25.0	23.5
29	20.0	19.5	28.0	26.5	---	---	28.0	27.5	29.5	29.0	25.0	24.0
30	19.5	19.0	28.0	27.0	---	---	28.0	27.0	29.0	28.5	24.5	24.0
31	---	---	27.5	27.0	---	---	28.0	27.0	28.5	28.0	---	---
MONTH	21.5	15.5	28.0	18.0	28.5	25.0	29.0	26.0	30.5	26.5	29.5	23.0
YEAR	30.5	6.5										

02226160 ALTAMAHA RIVER NEAR EVERETT CITY, GA.—Continued

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	7.8	7.6	---	---	10.8	10.4	9.4	9.0	8.5	7.8
2	---	---	---	---	---	---	10.6	10.4	9.0	8.6	8.3	7.6
3	---	---	---	---	---	---	10.4	10.1	8.9	8.5	8.3	7.5
4	---	---	---	---	8.6	8.3	10.1	9.7	8.8	8.6	8.1	7.5
5	---	---	---	---	8.9	8.6	9.7	9.3	8.8	8.4	7.8	7.5
6	---	---	---	---	9.2	8.9	9.3	8.9	8.8	8.4	7.5	7.1
7	6.5	6.2	---	---	9.7	9.2	9.2	8.7	8.7	8.2	7.4	6.9
8	6.3	6.1	---	---	10.0	9.4	8.8	8.4	8.9	8.4	7.4	6.6
9	6.5	6.1	7.9	7.2	10.2	9.5	8.4	8.1	8.8	8.4	7.7	6.8
10	6.9	6.3	7.9	7.2	10.1	9.6	8.4	7.7	8.5	8.2	7.8	7.3
11	6.8	6.6	---	---	10.0	9.6	8.7	7.8	8.3	8.0	7.7	7.2
12	7.1	6.5	---	---	10.2	9.6	9.5	8.5	8.6	8.1	7.5	7.0
13	7.4	6.8	---	---	10.5	10.1	10.0	9.5	8.8	8.3	7.4	6.9
14	7.3	6.4	---	---	10.5	10.1	10.0	9.4	8.9	8.3	---	---
15	7.1	6.5	---	---	10.4	9.9	9.8	9.7	9.0	8.6	7.1	6.7
16	---	---	---	---	10.1	9.8	---	---	8.9	8.1	6.8	6.2
17	---	---	---	---	10.4	9.8	---	---	8.5	7.5	6.8	6.2
18	---	---	---	---	10.8	10.4	10.5	9.6	8.3	7.5	6.7	6.2
19	---	---	8.5	8.3	10.7	10.5	10.2	9.8	8.2	7.7	6.5	5.9
20	---	---	8.6	8.3	11.1	10.6	10.3	9.8	8.3	7.6	6.4	5.8
21	---	---	8.6	8.4	11.5	11.0	10.2	9.8	8.1	7.6	6.2	5.5
22	---	---	8.9	8.5	11.6	11.2	10.1	9.6	8.1	7.3	6.0	5.4
23	---	---	9.1	8.6	11.8	11.3	9.9	9.4	---	---	5.9	5.3
24	---	---	9.3	8.7	11.3	11.0	9.7	9.2	---	---	6.0	5.5
25	---	---	9.2	8.7	10.9	10.7	9.4	8.9	---	---	6.0	5.6
26	7.2	6.7	---	---	10.8	10.5	9.7	9.2	---	---	6.4	5.7
27	7.4	7.0	---	---	10.9	10.5	9.9	9.5	---	---	6.4	5.8
28	7.6	7.2	---	---	11.0	10.5	10.3	9.5	---	---	6.6	6.1
29	7.9	7.2	---	---	11.1	10.5	10.3	9.5	---	---	7.1	6.5
30	---	---	---	---	11.0	10.5	9.8	9.5	---	---	7.4	6.8
31	8.0	7.5	---	---	10.9	10.5	9.7	9.3	---	---	7.4	6.8
MONTH	8.0	6.1	9.3	7.2	11.8	8.3	10.8	7.7	9.4	7.3	8.5	5.3

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	7.4	6.8	6.6	6.1	---	---	---	---	5.5	5.3	6.3	5.6
2	7.1	6.7	6.6	6.0	---	---	---	---	5.6	5.4	6.6	5.6
3	6.9	6.5	6.6	6.0	---	---	---	---	5.7	5.5	6.7	5.8
4	6.9	6.4	6.5	6.0	---	---	---	---	5.6	5.3	6.8	5.8
5	6.8	6.3	6.7	6.2	---	---	---	---	5.6	5.3	6.4	5.8
6	6.9	6.4	6.7	6.2	---	---	---	---	5.8	5.4	6.5	5.6
7	---	---	6.8	6.2	---	---	---	---	5.9	5.4	8.1	6.1
8	---	---	6.6	6.2	---	---	5.9	5.6	6.0	5.5	7.0	6.5
9	---	---	6.6	6.0	---	---	6.2	5.4	6.1	5.6	6.8	6.2
10	---	---	6.6	5.9	---	---	5.9	5.4	6.2	5.8	6.5	5.8
11	---	---	6.4	5.9	5.3	4.5	6.0	5.5	6.1	5.7	6.0	5.7
12	7.0	6.7	6.4	6.1	5.2	4.6	5.5	5.3	6.1	5.7	6.1	5.8
13	7.0	6.8	6.5	6.0	5.2	4.9	5.5	5.3	6.1	5.7	6.2	5.9
14	6.8	6.3	6.6	6.3	5.1	4.8	5.6	5.3	6.2	5.6	6.1	5.7
15	6.7	6.3	6.7	6.3	5.0	4.6	5.4	5.1	6.1	5.6	6.0	5.7
16	6.7	6.4	6.7	6.3	5.3	4.7	5.8	5.3	6.0	5.5	6.0	5.7
17	6.6	6.3	6.7	6.4	5.2	4.8	5.9	5.4	6.0	5.5	6.0	5.5
18	6.5	6.1	6.9	6.6	5.5	5.1	5.7	5.2	6.1	5.7	6.0	5.7
19	6.6	6.2	6.8	6.4	5.3	5.0	5.5	5.0	5.8	5.6	6.2	5.8
20	6.6	6.2	6.8	6.5	5.5	5.0	5.4	5.3	5.7	5.4	6.3	5.8
21	6.6	6.3	6.8	6.5	5.7	5.2	5.5	5.3	5.7	5.4	6.3	5.9
22	6.7	6.3	6.9	6.5	5.7	5.3	5.4	5.2	5.6	5.3	6.5	5.9
23	6.7	6.4	6.7	6.5	5.8	5.2	5.4	5.2	5.4	5.1	6.8	6.2
24	7.0	6.4	---	---	5.5	5.3	5.5	5.4	5.3	5.0	6.8	6.3
25	7.2	6.7	---	---	5.7	5.3	5.4	5.3	5.3	4.9	6.6	6.3
26	7.3	6.5	---	---	5.7	5.5	5.4	5.3	5.3	5.0	6.7	6.3
27	6.8	6.4	---	---	5.7	5.5	5.6	5.2	5.4	5.1	6.7	6.3
28	6.8	6.3	---	---	---	---	5.3	5.2	5.5	5.0	6.9	6.3
29	6.6	6.2	---	---	---	---	5.4	5.3	5.7	5.2	7.0	6.5
30	6.5	6.2	---	---	---	---	5.4	5.3	5.8	5.3	6.9	6.6
31	---	---	---	---	---	---	5.4	5.3	6.0	5.6	---	---
MONTH	7.4	6.1	6.9	5.9	5.8	4.5	6.2	5.0	6.2	4.9	8.1	5.5
YEAR	11.9	4.5										

RESERVOIRS IN ALTAMAHA RIVER BASIN

02210000 LLOYD SHOALS RESERVOIR.—Lat 33°19'13", long 83°50'20", Butts County, Hydrologic Unit 03070103, on Ocmulgee River, 1 mi (1.6 km) upstream from bridge on State Highway 16, and 7 mi (11.3 km) east of Jackson. DRAINAGE AREA, 1,400 mi^2 (3,626 km^2). PERIOD OF RECORD, October 1929 to current year. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by Georgia Power Co.).

Reservoir is formed by concrete gravity dam. Spillway (crest elevation, 528.0 and 525.0 ft) (160.9 and 160.0 m) is equipped with flashboards 308.5 ft (94.0 m) wide by 2 ft (0.61 m) high and 420 ft (128.0 m) wide by 5 ft (1.52 m) high. Dam completed in 1910. Total capacity at elevation 530.0 ft (161.5 m), top of flashboards, is 107,000 acre-ft (132 hm^3), of which 78,000 acre-ft (96.2 hm^3) is usable storage. Reservoir is used for power development. Capacity curve and monthend elevations furnished by Georgia Power Co.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

Date	Elevation (feet)†	Contents (acre-feet)	Change in contents (acre-feet)	(equivalent in cubic feet per second)
Sept. 30................	524.9	84600	-	-
Oct. 31................	524.5	83000	-1600	-26
Nov. 30................	525.9	88600	+5600	+94
Dec. 31................	529.8	106000	+17400	+283
CAL YR 1981	-	-	+21000	+29
Jan. 31................	527.4	94800	-11200	-182
Feb. 28................	526.3	90200	-4600	-83
Mar. 31................	528.1	98000	+7800	+127
Apr. 30................	529.3	104000	+6000	+101
May 31................	529.2	103000	-1000	-16
June 30................	528.9	102000	-1000	-17
July 31................	529.0	102000	0	0
Aug. 31................	528.5	99800	-2200	-36
Sept. 30................	528.0	97500	-2300	-39
WTR YR 1982	-	-	+13300	+18

† Elevation at 0700 on day following that shown in first column.

02220450 LAKE OCONEE.—Lat 33°21'00", long 83°09'28", Putnam County, Hydrologic Unit 03070101, on Oconee River, 1.5 mi (2.4 km) upstream from bridge on State Highway 16, and 13.3 mi (21.4 km) east of Eatonton. DRAINAGE AREA, 1,820 mi^2 (4,714 km^2). PERIOD OF RECORD, January 1979 to current year. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by Georgia Power Co.).

Reservoir is formed by concrete gravity dam. Spillway (crest elevation, 435.6 ft) (132.77 m) is equipped with five radial gates 42 ft wide by 44 ft high (12.8 m by 13.4 m). Storage began in January 1979; water in reservoir first reached minimum pool elevation in July 1979. Capacity curve and monthend elevations furnished by Georgia Power Company.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

Date	Elevation (feet)†	Contents (acre-feet)	Change in contents (acre-feet)	(equivalent in cubic feet per second)
Sept. 30................	430.5	283500	-	-
Oct. 31................	430.6	285000	+1500	+24
Nov. 30................	431.1	292600	+7600	+128
Dec. 31................	435.4	367200	+74600	+1213
CAL YR 1981	-	-	-3600	-5
Jan. 31................	433.9	340200	-27000	-439
Feb. 28................	435.3	365400	+25200	+454
Mar. 31................	433.5	333000	-32400	-527
Apr. 30................	435.3	365400	+32400	+545
May 31................	435.5	369000	+3600	+59
June 30................	435.5	369000	0	0
July 31................	434.9	358200	-10800	-176
Aug. 31................	435.5	369000	+10800	+176
Sept. 30................	435.0	360000	-9000	-151
WTR YR 1982	-	-	+75000	+104

† Elevation at 0700 on day following that shown in first column.

RESERVOIRS IN ALTAMAHA RIVER BASIN--Continued

02222500 SINCLAIR RESERVOIR.--Lat 33°08'27", long 83°12'08", Baldwin County, Hydrologic Unit 03070101, on Oconee River, 1.5 mi (2.4 km) upstream from Georgia Railroad bridge, and 4 mi (6.4 km) north of Milledgeville. DRAINAGE AREA, 2,900 mi^2 (7,511 km^2). PERIOD OF RECORD, October 1952 to current year. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by Georgia Power Co.).

Reservoir is formed by concrete gravity dam. Spillway (crest elevation, 319 ft) (97.2 m) is equipped with 24 gates 30 ft wide by 21 ft high (9.14 m by 6.40 m). Storage began in 1952; water in reservoir first reached minimum pool elevation in 1953. Total capacity at elevation 340.0 ft (103.6 m), top of gates, is 334,000 acre-ft (412 hm^3), of which 214,600 acre-ft (265 hm^3) is usable storage. Reservoir is used for power development. Capacity curve and monthend elevations furnished by Georgia Power Co.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

Date	Elevation (feet)†	Contents (acre-feet)	Change in contents (acre-feet)	Change in contents (equivalent in cubic feet per second)
Sept. 30	337.2	292800	-	-
Oct. 31	336.8	287200	-5600	-91
Nov. 30	336.6	284400	-2800	-47
Dec. 31	339.9	332500	+48100	+782
CAL YR 1981	-	-	+39700	+55
Jan. 31	338.6	313000	-19500	-317
Feb. 28	339.3	323500	+10500	+189
Mar. 31	337.2	292800	-30700	-499
Apr. 30	339.2	322000	+29200	+491
May 31	338.0	304000	-18000	-293
June 30	338.4	310000	+6000	+101
July 31	338.3	308500	-1500	-24
Aug. 31	338.0	304000	-4500	-73
Sept. 30	338.2	307000	+3000	+50
WTR YR 1982	-	-	+14200	+20

† Elevation at 0700 on day following that shown in first column.

02226475 SATILLA RIVER AT WALTERTOWN, GA.

LOCATION.--Lat 31°18'17", long 82°23'33", Ware County, Hydrologic Unit 03070201, at county highway bridge at Waltertown, and 6 mi (10 km) north of Waycross.

PERIOD OF RECORD.--August 1973 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, Dissolved Oxygen, and Specific Conductance by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE (DEG C)	TEMPERATURE, AIR (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT										
20...	1135	3.0	--	45	5.9	6.3	14.0	20.0	8.0	78
NOV										
23...	0900	16	--	105	6.2	6.1	6.0	6.0	10.3	83
DEC										
08...	1200	35	--	102	6.0	--	6.5	20.0	12.0	99
JAN										
19...	1215	1720	--	68	4.5	4.7	6.0	22.0	9.8	79
FEB										
16...	1035	1970	--	58	4.5	4.7	13.0	23.0	8.4	80
MAR										
16...	1110	1080	--	62	4.9	4.9	19.0	24.0	6.5	71
APR										
20...	1130	715	57	55	4.9	5.0	19.0	26.5	6.7	73
MAY										
18...	1040	165	51	50	5.1	5.1	23.5	28.0	5.8	69
JUN										
21...	0915	470	48	50	4.7	4.5	25.5	28.0	5.5	68
JUL										
28...	0910	2170	--	48	4.6	4.5	28.0	25.0	3.7	47
AUG										
19...	1240	685	--	44	4.8	4.7	24.0	26.0	5.0	59
SEP										
14...	1135	710	--	45	4.7	4.9	25.0	30.0	5.8	70

DATE	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	ALKALINITY LAB (MG/L AS CACO3)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT									
20...	60	5	1.4	40	7.0	.04	.020	.060	9.0
NOV									
23...	75	2	.4	40	5.0	<.02	.020	.030	14
DEC									
08...	120	3	.7	150	8.0	<.02	.020	.070	17
JAN									
19...	120	10	1.3	330	<1.0	.22	.020	.040	31
FEB									
16...	160	8	1.0	2300	<1.0	.06	<.020	.050	28
MAR									
16...	160	6	.9	20	4.0	.18	.060	.050	26
APR									
20...	150	4	.9	50	2.0	.06	.110	.080	30
MAY									
18...	100	5	.7	20	2.0	.10	.090	.060	25
JUN									
21...	280	3	.7	490	<1.0	.08	.030	.060	29
JUL									
28...	280	4	1.0	50	<1.0	<.02	.030	.060	--
AUG									
19...	280	3	.9	50	1.0	.06	.060	.120	32
SEP									
14...	240	5	1.3	--	1.0	.02	.060	.080	31

02226500 SATILLA RIVER NEAR WAYCROSS, GA.

LOCATION.--Lat 31°14'17", long 82°19'29", Ware-Pierce County line, Hydrologic Unit 03070201, on downstream side of pier near center span of bridge on State Highway 38, 3 mi (4.8 km) northeast of Waycross, and 16 mi (25.7 km) upstream from Alabaha River.

DRAINAGE AREA.--1,200 mi^2 (3,110 km^2), approximately.

PERIOD OF RECORD.--March 1937 to current year.

REVISED RECORDS.--WSP 952: 1939. WSP 1624: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 66.43 ft (20.248 m) National Geodetic Vertical Datum of 1929. Prior to Nov. 22, 1952, nonrecording gage at site 300 ft (91 m) downstream at same datum.

REMARKS.--Records good. Records of chemical analyses for the water years 1968-73 are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--45 years, 1,011 ft^3/s (28.63 m^3/s), 11.44 in/yr (291 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 39,000 ft^3/s (1,100 m^3/s) Apr. 4, 1948, gage height, 22.4 ft (6.83 m), from floodmark; minimum, 6.0 ft^3/s (0.170 m^3/s) Nov. 3, 4, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1862, that of Apr. 4, 1948.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,700 ft^3/s (76.5 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 22	0600	4440	126	14.96	4.560
May 2	1100	*5520	156	15.51	4.727
Aug. 1	0400	4230	120	14.82	4.517

Minimum discharge, 8.0 ft^3/s (0.23 m^3/s) Oct. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	8.6	29	224	774	1360	458	4680	184	615	4180	264
2	10	8.9	37	267	715	1060	447	5460	200	532	3800	210
3	9.2	8.9	34	346	697	910	418	5150	233	429	3340	168
4	8.9	9.2	31	430	745	794	379	4390	262	334	2920	139
5	8.9	61	31	476	886	720	354	3680	287	276	2420	129
6	8.6	77	37	493	1080	712	372	2920	398	306	1960	120
7	8.6	41	49	528	1290	825	392	1990	524	317	1630	182
8	8.6	32	54	600	1480	1130	467	1250	594	353	1300	260
9	9.2	28	55	627	1640	1500	729	827	579	637	1030	247
10	11	36	55	637	1760	1760	1110	617	501	1040	1030	211
11	11	50	52	628	1820	1920	1530	511	427	1140	1150	190
12	12	44	49	613	1800	1960	1870	447	372	1080	1360	262
13	11	39	45	652	1780	1890	2110	384	298	1210	1550	417
14	10	39	46	786	1780	1750	2220	328	211	1420	1650	562
15	11	42	63	984	1920	1570	2240	279	154	1350	1560	648
16	10	50	64	1250	2320	1340	2180	238	133	1430	1320	704
17	9.5	54	68	1500	2720	1090	1940	218	157	1490	1090	824
18	9.5	50	80	1670	3090	926	1590	188	288	1260	971	993
19	8.9	46	111	1860	3390	815	1190	156	432	975	862	1050
20	8.3	43	134	2010	3780	740	916	139	551	812	798	993
21	8.3	41	142	2110	4260	668	773	147	540	759	922	871
22	8.6	38	135	2140	4420	601	698	130	468	622	1110	713
23	8.6	37	124	2020	4220	550	647	115	437	813	1280	587
24	8.3	35	115	1750	3800	517	605	102	423	1360	1300	530
25	9.8	34	107	1480	3390	496	588	96	382	1840	1160	484
26	10	32	104	1260	2890	481	899	137	443	2300	1050	469
27	10	31	103	1120	2300	481	1420	258	551	2570	963	450
28	9.8	30	109	1060	1750	478	1890	326	671	2750	811	395
29	9.2	30	122	1020	---	457	2380	301	698	2890	610	333
30	9.2	29	126	949	---	447	3220	228	667	3290	445	279
31	8.9	---	167	853	---	453	---	193	---	3970	338	---
TOTAL	294.9	1104.6	2478	32343	62497	30401	36032	35885	12065	40170	45910	13684
MEAN	9.51	36.8	79.9	1043	2232	981	1201	1158	402	1296	1481	456
MAX	12	77	167	2140	4420	1960	3220	5460	698	3970	4180	1050
MIN	8.3	8.6	29	224	697	447	354	96	133	276	338	120
CFSM	.008	.03	.07	.87	1.86	.82	1.00	.97	.34	1.08	1.23	.38
IN.	.01	.03	.08	1.00	1.94	.94	1.12	1.11	.37	1.25	1.42	.42

CAL YR 1981 TOTAL 43017.5 MEAN 118 MAX 1100 MIN 8.3 CFSM .10 IN 1.33
WTR YR 1982 TOTAL 312864.5 MEAN 857 MAX 5460 MIN 8.3 CFSM .71 IN 9.70

02226582 SATILLA RIVER NEAR HOBOKEN, GA.

LOCATION.--Lat 31°13'00", long 82°09'45", Brantley-Pierce County line, Hydrologic Unit 03070201, at bridge on State Highway 121, 3 mi (4.8 km) northeast of Hoboken.

DRAINAGE AREA.--1,350 mi^2 (3,500 km^2), approximately.

PERIOD OF RECORD.--August 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, Dissolved Oxygen, and Specific Conductance by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE (DEG C)	TEMPERATURE, AIR (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT 20...	1245	19	--	215	6.9	7.2	14.5	21.0	7.3	72
NOV 23...	0945	33	--	230	6.6	6.8	6.5	16.0	8.8	72
DEC 08...	1330	37	--	146	--	6.7	6.5	22.0	11.8	97
JAN 19...	1350	1620	--	71	4.6	4.9	7.0	24.0	9.6	79
FEB 16...	1130	2080	--	66	4.8	4.8	13.5	23.0	8.2	79
MAR 16...	1155	1850	--	65	5.0	4.9	19.0	27.0	5.7	62
APR 20...	1250	1660	58	57	4.8	5.0	19.5	29.5	5.6	62
MAY 18...	1130	300	65	64	5.9	5.9	24.0	29.0	5.1	61
JUN 21...	1015	775	47	46	5.1	5.2	25.5	29.5	5.5	68
JUL 28...	1015	2430	--	43	4.5	4.7	25.5	27.0	4.0	49
AUG 19...	1330	1420	--	45	5.2	5.2	24.5	28.0	4.3	51
SEP 14...	1245	740	--	46	5.4	5.5	25.0	30.0	5.2	63

DATE	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	ALKALINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 20...	50	3	21	.9	70	36	<1	2.6	.580	1.20	.720	7.5
NOV 23...	70	3	33	.8	40	14	3	1.1	.120	.60	.580	14
DEC 08...	100	3	35	.9	40	16	<1	1.1	.320	.90	.440	17
JAN 19...	200	12	58	1.8	1300	1.0	2	.25	.030	1.00	.040	31
FEB 16...	140	5	58	1.1	80	2.0	5	.05	.020	.60	.050	28
MAR 16...	160	7	70	.9	20	3.0	4	.03	.070	.60	.070	28
APR 20...	150	4	69	1.0	1300	2.0	4	.04	.140	.90	.100	30
MAY 18...	100	6	59	.8	1100	6.0	4	.17	.370	.90	.340	23
JUN 21...	140	5	65	1.1	1300	3.0	11	.09	.120	.90	.120	27
JUL 28...	320	4	--	1.0	230	<1.0	4	<.02	<.020	--	.060	--
AUG 19...	240	4	--	.9	270	3.0	8	.06	.100	--	.140	31
SEP 14...	200	6	--	1.4	--	3.0	4	.16	.120	--	.160	25

02227000 HURRICANE CREEK NEAR ALMA, GA.

LOCATION.--Lat 31°34'00", long 82°27'50", Bacon County, Hydrologic Unit 03070201, at bridge on U.S. Highway 1, 1.5 mi (2.4 km) north of Alma.

DRAINAGE AREA.--139 mi2 (360 km2). Revised.

PERIOD OF RECORD.--Several miscellaneous samples collected between October 1969 and June 1974. July 1979 to June 1982 (discontinued).

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, Dissolved Oxygen, and Specific Conductance by U.S. Geological Survey. Water discharge records for the water years 1951-71 are published in reports of the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE (DEG C)	TEMPERATURE, AIR (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT										
20...	1040	.00	--	51	5.3	5.7	12.0	16.0	4.5	42
NOV										
23...	0800	.00	--	49	5.4	5.7	5.0	2.0	6.6	52
DEC										
08...	1110	.00	--	49	5.2	5.6	5.5	17.0	7.3	59
JAN										
19...	1110	440	--	74	--	4.3	7.0	18.0	10.3	85
FEB										
16...	0955	500	--	58	5.0	5.0	13.0	21.0	7.3	70
MAR										
16...	1000	78	--	64	4.4	4.5	18.0	23.0	6.1	65
APR										
20...	1040	97	57	55	4.5	4.6	17.0	25.0	6.3	66
MAY										
18...	0955	.80	54	52	4.6	4.7	20.5	26.0	3.9	44
JUN										
21...	0820	6.0	51	50	4.6	4.5	24.0	27.5	4.1	49

DATE	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	ALKALINITY LAB (MG/L AS CACO3)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT									
20...	180	10	1.7	90	7.0	.02	.220	.080	25
NOV									
23...	150	9	1.0	<30	3.0	.02	.040	.050	21
DEC									
08...	160	9	1.4	<30	4.0	<.02	<.020	.070	21
JAN									
19...	100	8	.7	310	--	.20	<.020	<.020	27
FEB									
16...	140	9	1.1	22000	2.0	.09	.030	.040	26
MAR									
16...	160	5	.5	<20	--	<.02	.080	.020	26
APR									
20...	200	3	.5	80	1.0	<.02	.040	<.020	30
MAY									
18...	70	5	.9	<20	<1.0	<.02	.100	.030	32
JUN									
21...	240	2	.6	460	<1.0	.04	.050	.040	31

02227500 LITTLE SATILLA RIVER NEAR OFFERMAN, GA.

LOCATION.--Lat 31°27'04", long 82°03'17", Pierce-Wayne County line, Hydrologic Unit 03070202, at right bank pier of steel truss span of Seaboard Coast Line Railroad bridge, 1,500 ft (457 m) downstream from bridge on State Highway 38, 4 mi (6.4 km) northeast of Offerman, and 16 mi (26 km) upstream from mouth.
DRAINAGE AREA.--646 mi^2 (1,673 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1951 to current year.
GAGE.--Water-stage recorder. Datum of gage is 58.00 ft (17.678 m) National Geodetic Vertical Datum of 1929. Prior to Nov. 8, 1952, water-stage recorder at site 1,500 ft (457 m) upstream and Nov. 8, 1952, to Sept. 30, 1975, water-stage recorder at present site at datum 1.00 ft (0.305 m) higher.
REMARKS.--Records good except those below 50 ft^3/s (1.42 m^3/s), which are fair and those for period of no gage-height record, Oct. 24 to Dec. 10, which are poor.
AVERAGE DISCHARGE.--31 years, 511 ft^3/s (14.47 m^3/s), 10.74 in/yr (273 mm/yr).
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,200 ft^3/s (487 m^3/s) Sept. 29, 1953, gage height, 14.5 ft (4.42 m), present datum; no flow Oct. 10 to Nov. 14, 1954.
EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,500 ft^3/s (42.5 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 20	2100	1810	51.3	9.49	2.893	July 19	0400	*3000	85.0	10.01	3.051
May 1	1500	2250	63.7	9.61	2.929	July 28	0600	2020	57.2	9.48	2.890

Minimum discharge, 0.18 ft^3/s (0.005 m^3/s) Oct. 19, 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.35	.35	2.6	85	282	469	168	2180	44	285	1680	59
2	.34	.30	3.2	96	261	382	161	2070	26	202	1300	45
3	.30	.30	3.1	89	265	325	155	1690	15	153	1040	34
4	.34	.40	2.9	84	312	282	158	1300	27	123	881	28
5	.41	1.0	2.9	92	330	253	164	977	322	194	763	23
6	.43	3.0	3.2	129	343	316	243	736	531	230	668	20
7	.43	3.0	4.0	176	360	505	277	522	545	306	618	18
8	.43	2.4	4.4	232	379	675	355	334	618	312	568	16
9	.54	2.2	4.6	274	408	880	543	223	753	469	561	34
10	.76	3.0	4.7	308	445	1080	657	158	739	795	928	96
11	.65	3.6	4.3	318	438	1230	782	111	568	1380	1230	297
12	.40	4.0	4.0	316	459	1230	893	80	336	1970	1430	522
13	.30	3.6	4.0	383	629	1120	999	56	217	2170	1040	564
14	.27	3.4	4.1	564	705	948	1140	39	130	2120	710	769
15	.26	4.0	10	666	773	792	1190	27	89	2400	667	1060
16	.24	4.2	19	682	984	657	1100	18	61	2050	843	859
17	.22	4.4	22	712	1120	530	961	14	83	2170	930	588
18	.22	4.2	21	771	1340	426	822	23	328	2880	998	362
19	.18	4.2	18	860	1590	346	663	18	522	2820	961	264
20	.21	4.0	18	934	1760	291	519	12	588	2220	821	213
21	.28	3.6	15	899	1760	250	430	8.3	648	1740	618	179
22	.35	3.4	15	825	1550	218	393	6.1	608	1510	702	168
23	.43	3.2	15	756	1320	195	396	4.5	641	1410	801	165
24	.43	3.0	14	712	1120	186	362	5.7	653	1540	757	153
25	.60	3.0	15	648	957	189	347	17	565	1670	624	120
26	.50	2.9	17	570	813	179	746	13	512	1650	455	95
27	.50	2.8	17	490	688	167	974	12	822	1860	315	83
28	.50	2.7	16	422	570	169	1240	23	780	1990	227	67
29	.45	2.6	19	380	---	177	1490	14	615	1920	162	52
30	.40	2.5	22	350	---	182	1830	8.0	438	1920	110	43
31	.35	---	40	314	---	175	---	48	---	1960	80	---
TOTAL	12.07	85.25	365.0	14137	21961	14824	20158	10747.6	12824	44419	23488	6996
MEAN	.39	2.84	11.8	456	784	478	672	347	427	1433	758	233
MAX	.76	4.4	40	934	1760	1230	1830	2180	822	2880	1680	1060
MIN	.18	.30	2.6	84	261	167	155	4.5	15	123	80	16
CFSM	.001	.004	.02	.71	1.21	.74	1.04	.54	.66	2.22	1.17	.36
IN.	.00	.00	.02	.81	1.26	.85	1.16	.62	.74	2.56	1.35	.40

CAL YR 1981 TOTAL 27536.32 MEAN 75.4 MAX 2310 MIN .18 CFSM .12 IN 1.59
WTR YR 1982 TOTAL 170016.92 MEAN 466 MAX 2880 MIN .18 CFSM .72 IN 9.79

02227500 LITTLE SATILLA RIVER NEAR OFFERMAN, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1957 to May 1958, October 1969 to August 1970, April 1978 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
OCT					
19...	1620	.18	20.0	10	.00
DEC					
10...	0855	4.9	6.5	6	.08
JAN					
26...	1500	564	9.0	4	6.1
MAR					
02...	1430	380	12.0	12	12
30...	1050	183	13.5	10	4.9
APR					
22...	0950	394	16.5	14	15
MAY					
24...	1250	3.9	26.0	11	.12
AUG					
04...	1205	884	24.5	22	53

02228000 SATILLA RIVER AT ATKINSON, GA.

(National stream-quality accounting network station)

LOCATION.--Lat 31°13'16", long 81°52'03", Brantley County, Hydrologic Unit 03070201, on left bank piling 25 ft (7.6 m) upstream from bridge on U.S. Highway 84, 400 ft (122 m) downstream from Seaboard Coast Line Railroad bridge, and 1 mi (1.6 km) west of Atkinson.

DRAINAGE AREA.—2,790 mi^2 (7,230 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—March 1930 to current year. Monthly discharge only for some periods, published in WSP 1304.

REVISED RECORDS.--WSP 1504: 1932. WSP 1624: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 14.79 ft (4.508 m) National Geodetic Vertical Datum of 1929. Prior to Dec. 6, 1933, and Nov. 21, 1961, to Sept. 30, 1964, nonrecording gage at same site and datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.—52 years, 2,226 ft^3/s (63.04 m^3/s), 10.84 in/yr (275 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 68,100 ft^3/s (1,930 m^3/s) Apr. 6, 1948, gage height, 23.9 ft (7.28 m); minimum daily, 21 ft^3/s (0.59 m^3/s) Nov. 2-5, 7-13, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1862, 27.2 ft (8.29 m) in September 1929, from information by Georgia Department of Transportation; discharge, 110,000 ft^3/s (3,120 m^3/s).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 5,800 ft^3/s (164 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 27	2300	6720	190	13.66	4.164
May 8	1000	6640	188	13.62	4.151
July 21	2100	*8570	243	14.52	4.426
Aug. 5	0900	7990	226	14.27	4.349

Minimum discharge, 27 ft^3/s (0.76 m^3/s) Nov. 1.

DISCHARGE. IN CUBIC FEET PER SECOND. WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54	27	74	261	2380	6270	989	3930	827	2960	5770	1670
2	52	28	89	304	2180	5710	950	4150	790	2730	6260	1470
3	48	28	83	361	2030	5020	925	4330	690	2450	6960	1230
4	46	31	79	434	1930	4310	903	4570	587	2170	7640	998
5	44	46	79	480	1840	3680	886	5020	602	1890	7970	831
6	42	57	88	513	1780	3220	898	5660	914	1640	7850	684
7	41	50	98	555	1750	2920	908	6280	1440	1500	7380	574
8	40	50	100	635	1750	2720	953	6600	1850	1440	6680	512
9	39	68	95	729	1780	2600	1140	6410	2070	1450	5870	554
10	40	85	90	816	1840	2560	1430	5670	2070	1540	5170	723
11	39	93	89	903	1910	2620	1710	4640	1970	1740	4500	888
12	38	87	91	992	2020	2750	1980	3670	1830	1940	3950	1160
13	37	82	94	1110	2260	2920	2270	2860	1680	2250	3590	1480
14	36	95	97	1290	2460	3120	2560	2180	1470	2700	3430	1720
15	36	109	109	1510	2670	3320	2850	1660	1190	3670	3440	1890
16	36	117	119	1720	2930	3460	3120	1260	985	4780	3480	1990
17	36	123	115	1860	3170	3500	3360	961	1090	5930	3460	2080
18	36	119	121	2060	3400	3440	3710	804	1320	6860	3370	2170
19	34	114	135	2230	3670	3220	4030	706	1500	7530	3330	2210
20	33	114	148	2340	4030	2920	4180	592	1640	8070	3310	2080
21	32	113	152	2430	4460	2610	4120	511	1840	8460	3300	1880
22	32	109	153	2500	4880	2320	3880	451	2140	8480	3320	1740
23	32	104	156	2580	5270	2080	3460	407	2570	8030	3320	1660
24	31	100	160	2720	5690	1850	2990	383	3050	7330	3040	1610
25	31	94	168	2860	6130	1670	2620	367	3370	6480	2810	1580
26	31	89	176	2960	6480	1500	2840	420	3520	5570	2650	1540
27	30	86	175	3030	6670	1360	2960	437	3530	4900	2520	1430
28	29	82	173	3030	6610	1240	3080	447	3520	4600	2390	1270
29	28	79	174	2960	---	1150	3310	517	3370	4680	2210	1110
30	28	76	176	2800	---	1070	3630	602	3160	4970	2010	968
31	28	---	201	2600	---	1020	---	702	---	5360	1840	---
TOTAL	1139	2455	3857	51573	93970	88150	72642	77197	56585	134100	132820	41702
MEAN	36.7	81.8	124	1664	3356	2844	2421	2490	1886	4326	4285	1390
MAX	54	123	201	3030	6670	6270	4180	6600	3530	8480	7970	2210
MIN	28	27	74	261	1750	1020	886	367	587	1440	1840	512
CFSM	.01	.03	.04	.60	1.20	1.02	.87	.89	.68	1.55	1.54	.50
IN.	.02	.03	.05	.69	1.25	1.18	.97	1.03	.75	1.79	1.77	.56

CAL YR 1981 TOTAL 119016 MEAN 326 MAX 3160 MIN 27 CFSM .12 IN 1.59
WTR YR 1982 TOTAL 756190 MEAN 2072 MAX 8480 MIN 27 CFSM .74 IN 10.08

02228000 SATILLA RIVER AT ATKINSON, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1968 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1975 to September 1981.

WATER TEMPERATURES: November 1974 to September 1981.

INSTRUMENTATION.--Water-temperature recorder October 1975 to September 1981. Specific-conductance recorder November 1974 to September 1981.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 159 micromhos Nov. 7, 1978; minimum recorded, 30 micromhos Mar. 16, 1977, Sept. 28, 1979, Mar. 20, 21, 1980.

WATER TEMPERATURES: Maximum, 33.5°C July 11-12, 1977, Aug. 4, 1980; minimum recorded, 4.0°C Jan. 13, 1981.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE (DEG C)	TEMPERATURE, AIR (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT										
28...	1525	29	110	--	6.9	6.7	23.0	27.0	8.4	--
28...	1530	29	110	112	6.9	--	23.0	27.0	8.4	--
JAN										
20...	1500	2350	80	80	4.6	4.5	9.5	20.0	11.0	--
20...	1505	2350	80	73	4.6	--	9.5	20.0	11.0	--
APR										
21...	1525	4110	57	58	4.6	4.7	22.0	27.0	--	59
21...	1530	4110	57	50	4.6	--	22.0	27.0	--	59
JUN										
09...	1330	2030	55	54	4.5	--	26.5	--	4.7	--
JUL										
28...	1355	4560	46	45	4.6	4.5	27.0	35.0	--	49
28...	1400	4560	46	42	4.6	--	27.0	35.0	--	49
AUG										
18...	1400	3360	51	44	4.4	--	25.5	--	4.2	--
SEP										
14...	1530	1750	--	49	4.6	4.7	27.0	31.0	5.4	68

DATE	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	TURBIDITY (NTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS (MG/L AS CACO3)	HARDNESS NONCARBONATE (MG/L AS CACO3)	ACIDITY (MG/L AS H)	ACIDITY (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)
OCT												
28...	50	2	--	1.5	<30	--	--	--	--	--	--	--
28...	--	--	2.4	--	--	89	430	21	1.0	--	--	3.6
JAN												
20...	200	11	--	1.1	300	--	--	--	--	--	--	--
20...	--	--	41	--	--	360	350	17	16	--	--	3.0
APR												
21...	160	4	--	1.4	50	--	--	--	--	--	--	--
21...	--	--	2.8	--	--	52	570	12	10	--	--	2.3
JUN												
09...	--	--	2.8	--	--	51	1000	8	4.0	--	--	1.7
JUL												
28...	400	4	--	1.2	<20	--	--	--	--	--	--	--
28...	--	--	2.5	--	--	24	90	7	6.0	--	--	1.4
AUG												
18...	--	--	4.5	--	--	70	280	8	6.0	.3	15	1.5
SEP												
14...	240	5	--	1.3	--	--	--	--	--	--	--	--

02228000 SATILLA RIVER AT ATKINSON, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)
OCT									
28...	--	--	--	--	--	18	--	--	--
28...	2.8	14	57	1.4	2.2	20	13	14	.1
JAN									
20...	2.2	7.0	44	.8	2.0	1.0	12	10	<.1
APR									
21...	--	--	--	--	--	1.0	--	--	--
21...	1.4	6.0	50	.8	1.4	2.0	6.0	10	<.1
JUN									
09...	1.0	4.7	50	.7	1.4	4.0	9.0	7.7	<.1
JUL									
28...	--	--	--	--	--	<1.0	--	--	--
28...	.8	3.0	44	.5	1.1	1.0	7.0	7.2	<.1
AUG									
18...	1.0	3.5	44	.6	1.5	2.0	7.0	8.2	<.1
SEP									
14...	--	--	--	--	--	<1.0	--	--	--

DATE	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)
OCT									
28...	--	--	--	--	<.02	--	.020	--	--
28...	3.3	94	66	7.4	--	<.01	--	.010	--
JAN									
20...	--	--	--	--	.10	--	.020	--	--
20...	9.6	174	47	1100	.10	.12	.020	.050	.49
APR									
21...	--	--	--	--	.02	--	<.020	--	--
21...	7.3	92	37	1020	--	<.10	--	.030	--
JUN									
09...	6.5	92	34	517	--	<.10	--	.030	--
JUL									
28...	--	--	--	--	<.02	--	<.020	--	--
28...	7.3	101	30	1240	--	<.10	--	.050	--
AUG									
18...	8.7	127	33	1150	--	<.10	--	.070	--
SEP									
14...	--	--	--	--	.06	--	.060	--	--

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT									
28...	--	--	.200	--	--	9.5	--	--	--
28...	.49	--	.180	.150	.150	--	3	.23	89
JAN									
20...	--	--	.040	--	--	28	--	--	--
20...	.51	.61	.040	.030	.030	--	--	--	--
APR									
21...	--	--	.060	--	--	32	--	--	--
21...	.67	--	.040	.020	.020	--	7	78	100
JUN									
09...	1.40	--	.060	.040	.040	--	13	73	62
JUL									
28...	--	--	.060	--	--	--	--	--	--
28...	.70	--	.050	.030	.020	--	162	1990	9
AUG									
18...	2.40	--	.070	.050	.020	--	14	127	80
SEP									
14...	--	--	.070	--	--	31	--	--	--

02228000 SATILLA RIVER AT ATKINSON, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	BARIUM, DISSOLVED (UG/L AS BA)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COBALT, DISSOLVED (UG/L AS CO)
OCT										
28...	1	1	100	20	<1	5	10	<10	6	<1
JAN										
20...	1	0	100	63	1	2	20	20	<1	<1
APR										
21...	1	1	<100	36	<1	1	20	10	<1	<1
JUL										
28...	1	1	100	28	1	2	10	10	<1	<1

DATE	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)
OCT									
28...	9	3	760	580	3	2	10	7	<.1
JAN									
20...	12	6	460	380	3	<1	80	97	<.1
APR									
21...	6	2	1100	920	4	3	50	47	<.1
JUL									
28...	24	3	1900	1600	6	6	40	34	<.1

DATE	MERCURY DISSOLVED (UG/L AS HG)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, TOTAL RECOVERABLE (UG/L AS AG)	SILVER, DISSOLVED (UG/L AS AG)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)
OCT									
28...	<.1	4	3	<1	<1	<1	<1	50	7
JAN									
20...	<.1	6	1	<1	<1	2	<1	60	33
APR									
21...	<.1	6	4	<1	<1	<1	<1	20	19
JUL									
28...	<.1	5	4	<1	<1	<1	<1	30	14

02228500 NORTH PRONG ST. MARYS RIVER AT MONIAC, GA.

LOCATION.--Lat 30°31'03", long 82°13'50", in NW sec.8, T.1 N., R.21 E., Baker County, Fla.-Charlton County, Ga., Hydrologic Unit 03070204, near right bank at upstream side of bridge on State Highways 2 and 94, 0.2 mi (0.3 km) upstream from Georgia Southern & Florida Railway bridge, 0.4 mi (0.6 km) west of Moniac, 1.0 mi (1.6 km) downstream from Moccasin Creek, and 122 mi (196 km) upstream from mouth of St. Marys River.

DRAINAGE AREA.--160 mi^2 (410 km^2), approximately; includes part of watershed in Okefenokee Swamp, which is indeterminate.

PERIOD OF RECORD.--January 1921 to December 1923 (published as St. Marys River at Moniac), January 1927 to June 1930, July 1932 to June 1934, October 1950 to current year.

REVISED RECORDS.--WSP 1234: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 89.40 ft (27.249 m) National Geodetic Vertical Datum of 1929. January 1921 to June 1934, nonrecording gage at site 800 ft (240 m) downstream at datum 3.22 ft (0.981 m) higher.

REMARKS.--Records good.

AVERAGE DISCHARGE.--37 years (1922-23, 1928-29, 1933, 1951-82), 159 ft^3/s (4.503 m^3/s), 13.50 in/yr (343 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,600 ft^3/s (329 m^3/s) Apr. 5, 1973, gage height, 22.98 ft (7.004 m); no flow for many days in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 894 ft^3/s (25.3 m^3/s) Apr. 12, gage height, 11.63 ft (3.545 m); no flow Oct. 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.57	.01	6.9	101	90	63	201	63	2.4	118	33	53
2	.48	.05	16	117	84	59	166	56	3.1	108	38	47
3	.37	.05	24	106	89	55	137	49	3.2	86	41	43
4	.34	.06	23	97	151	51	115	43	3.4	69	38	40
5	.29	.48	21	88	173	66	96	38	3.0	57	34	40
6	.24	2.3	19	77	160	381	82	33	2.1	50	30	39
7	.19	2.3	19	70	147	687	70	29	1.4	43	31	36
8	.15	1.6	18	73	133	715	74	26	.81	47	30	34
9	.18	1.3	17	78	123	532	178	25	.60	48	36	34
10	.19	1.6	16	71	129	415	302	22	.46	43	100	80
11	.28	18	15	64	127	342	666	19	.36	39	124	201
12	.60	21	14	58	123	283	853	16	.20	35	107	307
13	.64	16	14	83	162	232	699	14	.25	31	94	374
14	.56	12	14	249	180	193	583	11	.51	34	89	386
15	.48	10	17	450	163	162	485	8.7	.51	38	85	341
16	.39	8.9	25	425	158	139	405	6.5	.55	35	75	266
17	.29	12	25	389	181	121	348	4.8	4.3	31	67	196
18	.23	14	24	365	198	106	330	3.7	19	29	66	148
19	.13	13	24	326	171	93	300	2.9	32	28	67	115
20	.09	13	22	287	150	82	246	2.1	28	32	65	92
21	.06	14	21	248	134	72	201	1.6	25	32	65	80
22	.05	13	21	215	119	66	164	1.1	28	32	70	85
23	.04	12	20	187	106	118	133	.86	40	32	75	81
24	.04	11	20	187	95	164	108	1.1	44	32	74	72
25	.15	10	20	183	87	257	95	.99	42	35	71	65
26	.15	9.4	29	158	79	314	110	.98	41	33	77	67
27	.14	8.8	35	138	72	287	110	1.4	52	30	71	73
28	.10	8.3	35	123	67	228	95	2.1	64	29	62	69
29	.06	7.9	34	112	---	231	81	1.8	69	29	64	62
30	.05	7.3	36	104	---	278	71	1.7	95	29	64	57
31	.00	---	49	96	---	242	---	1.9	---	29	59	---
TOTAL	7.53	249.35	693.9	5325	3651	7034	7504	488.23	606.15	1343	2002	3583
MEAN	.24	8.31	22.4	172	130	227	250	15.7	20.2	43.3	64.6	119
MAX	.64	21	49	450	198	715	853	63	95	118	124	386
MIN	.00	.01	6.9	58	67	51	70	.86	.20	28	30	34
CFSM	.002	.05	.14	1.08	.81	1.42	1.56	.10	.13	.27	.40	.74
IN.	.00	.06	.16	1.24	.85	1.64	1.74	.11	.14	.31	.47	.83

CAL YR 1981 TOTAL 18670.15 MEAN 51.2 MAX 792 MIN .00 CFSM .32 IN 4.34
WTR YR 1982 TOTAL 32487.16 MEAN 89.0 MAX 853 MIN .00 CFSM .56 IN 7.55

02231000 ST MARYS RIVER NEAR MACCLENNY, FLA.

(National stream-quality accounting network station)

LOCATION.--Lat 30°21'31", long 82°04'54", in NW sec.2, T.2 S., R.22 E., Baker County, Fla.-Charlton County, Ga., Hydrologic Unit 03070204, on right bank 200 ft (60 m) downstream from site of former Stokes Bridge, 1 mi (2 km) downstream from confluence of North and South Prongs, 6 mi (10 km) northeast of Macclenny, and 100 mi (161 km) upstream from mouth.

DRAINAGE AREA.--700 mi^2 (1,810 km^2), approximately; includes part of watershed in Okefenokee Swamp, which is indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1926 to current year.

REVISED RECORDS.--WSP 1082: 1928(M), 1945(M). WSP 1142: 1928, 1945. WSP 1434: 1927. WSP 1905: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 40.00 ft (12.192 m) National Geodetic Vertical Datum of 1929 (levels by Mees and Mees). Prior to Feb. 21, 1939, nonrecording gage and Feb. 21, 1939, to Aug. 15, 1948, water-stage recorder, at site of former bridge 200 ft (60 m) upstream at same datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--56 years, 670 ft^3/s (18.97 m^3/s), 13.00 in/yr (330 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,100 ft^3/s (796 m^3/s) Sept. 25, 1947, maximum gage height, 23.25 ft (7.087 m) Sept. 13, 1964, from floodmark; minimum discharge observed, 12 ft^3/s (0.34 m^3/s) May 22, 1932; minimum gage height observed, 0.04 ft (0.012 m) June 4, 5, 1927.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 2,000 ft^3/s (56.6 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Apr. 13	1500	*3220	92.1	12.64	3.853

Minimum discharge, 35 ft^3/s (0.99 m^3/s) Oct. 20-24, minimum gage height, 1.29 ft (0.393 m), Oct. 24, 31, Nov. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	36	56	346	368	266	1000	413	82	416	1310	510
2	44	37	64	498	345	251	887	366	90	388	1160	453
3	43	38	85	484	328	236	785	325	92	332	1030	394
4	42	38	103	437	392	222	689	289	87	272	919	340
5	41	41	101	427	507	216	604	256	88	227	785	292
6	40	50	91	415	521	424	526	224	86	225	654	250
7	39	67	84	377	489	1020	463	199	76	270	569	222
8	38	61	80	366	455	1440	426	179	65	377	510	198
9	38	53	76	410	420	1610	630	163	58	484	576	186
10	38	52	73	416	402	1490	1070	152	53	641	1180	275
11	38	76	71	379	401	1340	1670	139	49	723	1840	1130
12	38	142	69	341	395	1180	2570	131	46	807	1830	1530
13	38	128	69	342	432	1030	3170	120	48	757	1510	1510
14	38	109	68	640	524	895	3060	110	64	633	1300	1410
15	37	95	70	1130	536	781	2700	102	64	712	1150	1280
16	37	87	68	1360	491	675	2320	93	59	920	999	1090
17	37	80	73	1320	485	581	2170	87	57	970	824	876
18	37	76	79	1220	556	500	2400	82	88	882	693	689
19	36	74	78	1120	581	436	2280	76	339	913	679	543
20	35	72	77	1020	531	381	2000	71	387	969	725	432
21	35	70	76	918	484	338	1750	68	279	1040	758	348
22	35	68	75	831	441	308	1500	65	216	1040	843	319
23	35	68	73	757	402	342	1280	64	318	980	904	315
24	35	66	73	703	369	459	1060	63	458	943	828	294
25	37	64	72	668	342	599	877	64	425	947	718	267
26	37	63	75	628	319	827	762	71	368	970	624	263
27	37	62	94	567	299	1100	698	78	431	954	590	337
28	37	60	114	509	282	1110	629	71	532	1060	569	367
29	37	59	115	464	---	1020	542	75	502	1390	552	337
30	37	57	144	428	---	1070	472	74	454	1520	616	303
31	36	---	202	396	---	1090	---	78	---	1450	571	---
TOTAL	1178	2049	2648	19917	12097	23237	40990	4348	5961	24212	27816	16760
MEAN	38.0	68.3	85.4	642	432	750	1366	140	199	781	897	559
MAX	46	142	202	1360	581	1610	3170	413	532	1520	1840	1530
MIN	35	36	56	341	282	216	426	63	46	225	510	186
CFSM	.05	.10	.12	.92	.62	1.07	1.95	.20	.28	1.12	1.28	.80
IN.	.06	.11	.14	1.06	.64	1.23	2.18	.23	.32	1.29	1.48	.89

CAL YR 1981 TOTAL 94646 MEAN 259 MAX 2080 MIN 30 CFSM .37 IN 5.03
WTR YR 1982 TOTAL 181213 MEAN 496 MAX 3170 MIN 35 CFSM .71 IN 9.63

02231000 ST. MARYS RIVER NEAR MACCLENNY, FLA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1965 to current year.
PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: March 1965 to October 1969, January 1974 to September 1981.
WATER TEMPERATURES: March 1965 to October 1969, January 1974 to September 1976.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT									
05...	0930	35	75	--	6.7	--	23.0	6.8	79
NOV									
17...	1000	85	73	68	7.5	6.8	14.0	--	--
DEC									
15...	1020	--	--	67	--	7.0	--	--	--
FEB									
16...	1310	488	63	47	4.1	5.3	16.0	8.9	90
MAY									
04...	1220	290	50	35	4.6	5.4	21.0	7.6	--
JUL									
07...	0945	257	70	43	5.4	5.4	26.0	6.2	76
AUG									
10...	1015	1100	46	--	4.6	--	25.0	6.5	78

DATE	TUR-BID-ITY (NTU)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM
OCT									
05...	--	140	60	--	--	--	--	--	--
NOV									
17...	1.5	129	30	22	9.0	4.9	2.4	4.8	31
DEC									
15...	1.1	--	--	24	8.0	5.4	2.5	5.0	31
FEB									
16...	1.4	50	85	11	--	2.5	1.2	5.0	48
MAY									
04...	1.4	--	--	11	10	2.3	1.2	4.5	47
JUL									
07...	5.2	--	--	12	9.0	2.8	1.1	4.0	42
AUG									
10...	--	--	--	--	--	--	--	--	--

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)
OCT										
05...	--	--	--	--	--	--	--	--	--	--
NOV										
17...	.5	.9	13	8.3	9.5	<.1	10	93	49	21.3
DEC										
15...	.5	.5	16	6.8	8.8	<.1	9.0	84	48	--
FEB										
16...	.7	.3	<1.0	8.7	8.4	<.1	7.9	95	--	125
MAY										
04...	.6	.2	1.0	8.0	7.8	<.1	6.4	106	32	83.0
JUL										
07...	.5	.3	3.0	7.0	7.3	<.1	6.3	110	31	76.3
AUG										
10...	--	--	--	--	--	--	--	--	--	--

02231000 ST. MARYS RIVER NEAR MACCLENNY, FLA.—Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT									
05...	--	--	--	--	--	--	2	.19	--
NOV									
17...	--	--	--	--	--	--	4	.91	50
DEC									
15...	.14	.020	.64	.050	.040	.020	4	--	50
FEB									
16...	.05	<.010	.90	.040	.030	.010	5	6.6	60
MAY									
04...	--	--	--	--	--	--	--	--	--
JUL									
07...	.10	.060	.50	.050	.040	.050	--	--	--
AUG									
10...	<.10	.030	1.00	.050	.030	.040	--	--	--

DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA)	BARIUM, DIS-SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO)	COBALT, DIS-SOLVED (UG/L AS CO)
NOV										
17...	1	1	<100	25	<1	2	30	20	<1	<1
FEB										
16...	1	<1	100	69	1	<1	10	20	1	<1
MAY										
04...	2	1	<100	25	<1	<1	40	30	1	<1

DATE	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)
NOV									
17...	7	12	470	340	2	1	20	13	.1
FEB									
16...	30	36	510	490	6	4	10	12	.3
MAY									
04...	6	5	910	890	3	3	20	11	.2

DATE	MERCURY DIS-SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)	SILVER, DIS-SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
NOV									
17...	<.1	2	1	<1	<1	<1	<1	50	14
FEB									
16...	.3	2	2	<1	<1	<1	<1	20	37
MAY									
04...	.2	3	3	<1	<1	4	<1	40	55

02231000 ST. MARYS RIVER NEAR MACCLENNY, FLA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	PCB, TOTAL (UG/L)	NAPH-THA-LENES, POLY-CHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR-DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)	DI-AZINON, TOTAL (UG/L)	DI-ELDRIN TOTAL (UG/L)	ENDO-SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)
FEB 16...	<.10	<.10	<.01	<.10	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01
MAY 04...	<.10	<.10	<.01	<.10	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01

DATE	HEPTA-CHLOR, TOTAL (UG/L)	HEPTA-CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA-THION, TOTAL (UG/L)	METH-OXY-CHLOR, TOTAL (UG/L)	METHYL PARA-THION, TOTAL (UG/L)	METHYL TRI-THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PARA-THION, TOTAL (UG/L)	PER-THANE TOTAL (UG/L)	TOX-APHENE, TOTAL (UG/L)	TOTAL TRI-THION (UG/L)
FEB 16...	<.01	<.01	<.01	.10	<.01	<.01	<.01	<.01	<.01	<.01	<0	<.01
MAY 04...	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.10	<1	<.01

DATE	PCB, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	PCN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	ALDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	CHLOR-DANE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DDD, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DDE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DDT, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DI-ELDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	ENDO-SULFAN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)
NOV 17...	<1	<1.0	<.1	<1.0	<.1	<.1	<.1	<.1	<.1
MAY 04...	<1	<1.0	<.1	<1.0	<.1	<.1	<.1	<.1	<.1

DATE	ENDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	HEPTA-CHLOR, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	HEPTA-CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	METH-OXY-CHLOR, TOT. IN BOTTOM MATL. (UG/KG)	MIREX, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	PER-THANE IN BOTTOM MATERIL (UG/KG)	TOXA-PHENE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)
NOV 17...	<.1	<.1	<.1	<.1	<.1	<.1	<.10	<1.0
MAY 04...	<.1	<.1	<.1	<.1	<.1	<.1	<1.00	<10

02231220 ST. MARYS RIVER AT BOULOGNE, FLA.

LOCATION.--Lat 30°46'35", long 81°58'44", Nassau County, Fla.-Charlton County, Ga., Hydrologic Unit 03070204, at bridge on U.S. Highways 1, 23, and 301, at Boulogne.

DRAINAGE AREA.--1,180 mi^2 (3,060 km^2), approximately; includes part of watershed in Okefenokee Swamp, which is indeterminate.

PERIOD OF RECORD.--August 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Air Temperature, Water Temperature, pH, Dissolved Oxygen, and Specific Conductance by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 20...	1340	--	98	6.9	7.3	17.5	23.0	6.9	72
NOV 23...	1035	--	98	6.7	6.8	9.5	13.0	8.5	75
DEC 08...	1430	--	89	6.3	6.7	8.5	24.5	10.2	88
JAN 19...	1445	--	62	4.5	4.6	8.5	24.0	9.6	82
FEB 16...	1235	--	58	4.8	4.9	16.0	27.0	9.0	92
MAR 16...	1300	--	60	4.8	4.7	20.0	28.0	6.4	71
APR 20...	1350	51	50	4.4	4.6	20.5	32.0	5.4	60
MAY 18...	1225	70	67	6.6	6.4	27.0	34.0	5.4	68
JUN 21...	1120	76	76	6.8	6.7	28.5	31.5	5.5	72
JUL 28...	1215	--	43	4.5	4.7	26.5	31.5	5.2	65
AUG 19...	1450	--	47	4.9	4.6	25.0	28.5	4.6	56
SEP 14...	1350	--	44	4.7	4.8	25.0	30.5	5.3	64

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY LAB (MG/L AS CACO3)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	TANNIN AND LIGNIN (MG/L)
OCT 20...	150	2	.4	<30	29	.04	.040	.030	18	3.3
NOV 23...	125	2	.5	<30	14	.04	<.020	.400	<1.0	2.8
DEC 08...	180	2	.5	90	14	.02	.020	.030	23	3.3
JAN 19...	240	9	1.0	220	<1.0	.04	.020	.020	46	4.9
FEB 16...	240	3	.7	65	2.0	.03	.020	.020	40	6.2
MAR 16...	260	5	.8	20	1.0	<.02	.060	.030	38	6.8
APR 20...	295	4	.9	20	1.0	<.02	<.020	.020	41	8.4
MAY 18...	80	5	.5	20	15	.04	.120	.040	28	--
JUN 21...	140	3	1.1	110	16	.06	<.020	.040	21	3.6
JUL 28...	400	2	1.0	330	2.0	<.02	.090	.040	--	7.1
AUG 19...	300	1	1.9	<20	<1.0	<.02	.110	.020	37	7.8
SEP 14...	320	4	1.3	--	1.0	<.02	.060	.040	33	5.8

02314500 SUWANNEE RIVER AT FARGO, GA.

LOCATION.--Lat 30 40'50", long 82 33'38", Clinch County, Hydrologic Unit, 03110201, on downstream side of right bank pier of bridge on U.S. Highway 441 at Fargo, 4 mi (6.4 km) upstream from Suwannoochee Creek, and 12 mi (19 km) downstream from Mixons Ferry damsite.

DRAINAGE AREA.--About 1,260 mi^2 (3,260 km^2), includes part of watershed in Okefenokee Swamp, which is indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1921 to September 1923 (gage heights only), January 1927 to December 1931, April 1937 to current year. Monthly discharge only for some periods, published in WSP 1304.

REVISED RECORDS.--WSP 1234: Drainage area. WSP 1504: 1928-30.

GAGE.--Water-stage recorder. Datum of gage is 91.90 ft (28.011 m) National Geodetic Vertical Datum of 1929. Jan. 27, 1921, to Sept. 30, 1923, nonrecording gage at site 1,200 ft (366 m) upstream at datum 3.00 ft (0.914 m) higher. Jan. 27, 1927, to Dec. 31, 1931, and Apr. 20 1937, to June 10, 1938, nonrecording gage at site 1,000 ft (305 m) upstream at datum 1.00 ft (0.305 m) higher, June 11, 1938, to Nov. 26, 1952, nonrecording gage at site 1,000 ft (305 m) upstream at present datum. Oct. 14, 1960, to Oct. 29, 1970, auxiliary water-stage recorder at site about 3 mi (4.8 km) upstream and since Nov. 5, 1971, auxiliary water-stage recorder at site about 2 mi (3.2 km) upstream.

REMARKS.--Records good. Low flow at times affected by manipulation of water level at Mixons Ferry Dam.

AVERAGE DISCHARGE.--49 years (1927-31, 1937-82), 1,063 ft^3/s (30.10 m^3/s), 11.46 in/yr (291 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,800 ft^3/s (391 m^3/s) Oct. 1, 5, 6, 1928; maximum gage height, 21.01 ft (6.404 m) Apr. 9, 1973; no flow at times in 1931, 1943, 1954.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,140 ft^3/s (32.3 m^3/s) Apr. 13; maximum gage height, 8.33 ft (2.539 m) Apr. 13, no peaks above base of 2,000 ft^3/s (56.6 m^3/s); minimum discharge 7.8 ft^3/s (0.22 m^3/s) Nov. 3, 4, gage height, 0.68 ft (0.207 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	8.0	11	51	80	450	486	836	101	442	680	129
2	10	8.0	13	49	77	439	449	821	101	381	666	117
3	9.9	7.8	14	41	91	433	413	796	98	310	632	107
4	9.8	9.2	12	44	159	426	381	761	93	244	594	100
5	9.9	13	11	53	165	419	347	718	90	205	570	104
6	9.8	16	11	45	164	508	317	668	86	181	565	116
7	9.6	13	11	41	167	675	285	613	80	169	561	110
8	9.6	11	11	48	169	716	283	569	75	163	558	100
9	9.9	10	11	49	175	724	446	529	70	161	550	99
10	10	13	11	44	195	715	570	486	65	182	540	120
11	13	21	11	43	213	694	913	443	60	185	541	154
12	14	19	11	41	230	674	1080	402	55	177	528	177
13	11	16	11	65	373	650	1130	362	52	179	528	178
14	10	14	11	151	405	622	1130	327	51	296	554	169
15	10	13	15	168	410	594	1100	292	48	322	554	158
16	9.9	13	21	133	419	569	1040	262	47	340	545	149
17	9.7	13	18	123	500	545	970	237	55	323	493	141
18	9.8	13	16	116	560	524	927	216	77	327	441	133
19	9.9	12	15	111	562	503	886	196	102	350	449	124
20	9.5	12	15	107	552	484	832	182	101	369	450	112
21	9.5	12	14	101	538	464	792	166	95	389	431	109
22	9.6	12	14	95	516	456	749	151	96	420	407	110
23	9.5	11	14	92	495	504	681	138	108	460	371	106
24	9.3	11	14	104	485	534	611	130	186	503	331	97
25	10	11	15	105	470	602	570	124	284	523	300	90
26	10	11	18	97	462	610	659	117	384	525	270	88
27	9.5	11	20	91	454	588	792	116	472	525	234	85
28	8.8	11	19	89	452	559	849	112	533	546	202	81
29	8.3	11	19	87	---	546	861	105	537	641	177	76
30	8.3	11	18	85	---	540	849	98	496	675	158	70
31	8.2	---	25	83	---	518	---	95	---	704	142	---
TOTAL	307.3	367.0	450	2552	9538	17285	21398	11068	4698	11217	14022	3509
MEAN	9.91	12.2	14.5	82.3	341	558	713	357	157	362	452	117
MAX	14	21	25	168	562	724	1130	836	537	704	680	178
MIN	8.2	7.8	11	41	77	419	283	95	47	161	142	70
CFSM	.008	.01	.01	.07	.27	.44	.57	.28	.13	.29	.36	.09
IN.	.01	.01	.01	.08	.28	.51	.63	.33	.14	.33	.41	.10

CAL YR 1981 TOTAL 79373.3 MEAN 217 MAX 1690 MIN 7.8 CFSM .17 IN 2.34
WTR YR 1982 TOTAL 96411.3 MEAN 264 MAX 1130 MIN 7.8 CFSM .21 IN 2.85

02314500 SUWANNEE RIVER AT FARGO, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1968 to current year.
REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	TEMPER-ATURE, AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT										
05...	0940	9.9	--	43	4.6	4.4	19.5	27.5	7.8	85
NOV										
04...	0930	9.0	--	46	4.8	--	16.0	22.0	8.6	87
DEC										
15...	1030	17	--	55	5.3	5.5	13.5	20.5	9.4	92
JAN										
28...	1040	89	--	102	4.3	--	9.5	13.5	8.7	76
FEB										
10...	1040	192	--	110	3.7	3.9	16.0	11.5	7.9	--
MAR										
10...	1010	716	--	75	4.0	3.9	14.0	21.5	6.5	63
APR										
14...	1005	1140	75	70	3.9	4.1	19.5	24.0	6.0	66
MAY										
12...	0910	408	75	70	4.0	4.0	22.0	28.0	6.1	70
JUN										
16...	0810	46	67	64	4.1	4.1	28.5	26.0	5.1	66
JUL										
22...	0925	416	72	70	4.0	4.0	26.5	29.5	5.4	68
AUG										
18...	0910	449	66	70	4.3	3.9	26.5	25.0	5.4	68
SEP										
29...	0910	76	67	67	4.3	4.1	23.0	23.5	6.5	76

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)
OCT								
05...	120	2	57	--	.7	<30	<1.0	<1
NOV								
04...	120	2	59	--	1.0	30	--	2
DEC								
15...	200	8	70	--	1.4	9300	3.0	13
JAN								
28...	280	10	129	--	1.0	<20	--	1
FEB								
10...	360	2	129	--	2.0	<20	--	2
MAR								
10...	240	3	136	--	.8	50	--	<1
APR								
14...	280	1	100	--	1.0	110	<1.0	<1
MAY								
12...	100	2	123	123	.4	<20	<1.0	5
JUN								
16...	320	1	104	104	.6	20	<1.0	1
JUL								
22...	280	1	--	--	.2	20	<1.0	2
AUG								
18...	320	2	--	--	.6	<20	<1.0	<1
SEP								
29...	240	1	--	--	1.4	<20	<1.0	<1

02314500 SUWANNEE RIVER AT FARGO, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	TANNIN AND LIGNIN (MG/L)
OCT						
05...	<.02	<.020	.70	.030	25	4.1
NOV						
04...	<.02	.020	.70	.030	27	4.4
DEC						
15...	<.02	.040	.80	.100	32	4.8
JAN						
28...	.08	<.020	.80	.040	67	--
FEB						
10...	<.02	.030	1.10	.020	57	8.2
MAR						
10...	<.02	.070	1.10	.020	55	8.4
APR						
14...	<.02	<.020	1.10	.020	55	9.5
MAY						
12...	<.02	.020	1.03	.020	47	11
JUN						
16...	.03	.030	1.60	.040	48	10
JUL						
22...	<.02	.030	--	<.020	47	8.6
AUG						
18...	<.02	.030	--	<.020	49	9.5
SEP						
29...	<.02	.030	--	<.020	46	7.9

02316000 ALAPAHA RIVER NEAR ALAPAHA, GA.

LOCATION.--Lat 31°23'03", long 83°11'33", Berrien County, Hydrologic Unit 03110202, near right bank on downstream side of bridge on State Highway 50, 2 mi (3.2 km) east of Alapaha, and 6 mi (9.7 km) upstream from Willacoochee River.
DRAINAGE AREA.--663 mi^2 (1,720 km^2).
PERIOD OF RECORD.--October 1969 to current year. Water-discharge records for water years 1937-76 are published in reports of the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
APR								
07...	1100	410	50	46	5.7	6.1	15.0	7.0
SEP								
09...	0900	85	45	47	5.7	--	22.5	5.5

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (FTU)	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)
APR											
07...	140	11	11	7.0	2.5	1.2	3.9	39	.6	1.7	4.0
SEP											
09...	350	8.3	12	6.0	2.4	1.4	2.7	30	.4	1.6	6.0

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)
APR											
07...	5.0	9.8	<.1	1.7	63	30	69.7	.04	.08	.080	--
SEP											
09...	6.0	8.0	<.1	8.8	67	36	15.4	<.10	<.10	<.010	<.010

DATE	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	NITRO-GEN DIS-SOLVED (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)
APR											
07...	1.0	1.10	1.5	1.6	1.1	.040	.020	15	330	1	1
SEP											
09...	--	.80	.80	--	--	.050	.020	17	190	1	1

DATE	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	ZINC, DIS-SOLVED (UG/L AS ZN)
APR											
07...	2	10	<1	1100	12	<1	62	<.1	<.1	<1	16
SEP											
09...	<1	10	5	1000	6	4	70	.2	.1	<1	7

02316120 TURKEY BRANCH NEAR FITZGERALD, GA.

LOCATION.--Lat 31°40'45", long 83°15'03", Ben Hill County, Hydrologic Unit 03110202, at bridge on county road 1.8 mi (2.4 km) south of Fitzgerald.
DRAINAGE AREA.--14.5 mi^2 (37.6 km^2).
PERIOD OF RECORD.--July 1979 to June 1982 (discontinued).
REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	TEMPER-ATURE, AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT									
06...	0805	--	337	6.9	6.9	18.5	20.0	.3	3
NOV									
02...	0945	--	308	6.9	7.0	12.0	19.0	.8	7
DEC									
16...	1000	--	144	6.7	6.7	4.5	8.0	5.3	41
JAN									
12...	1030	--	150	6.7	6.8	1.5	2.0	10.9	79
26...	1020	--	144	6.8	6.6	7.5	6.0	5.9	50
FEB									
08...	0925	--	130	6.5	6.6	10.5	10.0	2.2	20
MAR									
08...	1040	--	102	6.4	--	10.0	7.0	6.2	55
APR									
12...	1030	120	123	--	6.8	15.5	24.0	3.8	38
MAY									
10...	0930	179	186	6.5	6.6	19.0	26.0	.2	2
JUN									
14...	0845	269	268	6.7	6.7	24.0	27.0	.1	1

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT									
06...	50	12	8.4	430	116	.02	2.52	3.15	20
NOV									
02...	50	10	11	93000	96	.04	2.74	3.00	19
DEC									
16...	110	11	4.4	230	24	.68	.400	.560	17
JAN									
12...	50	10	--	--	29	1.3	.950	.700	19
26...	50	14	3.6	490	24	1.0	.600	.460	18
FEB									
08...	70	5	4.3	270	25	.83	.890	.550	13
MAR									
08...	120	7	3.6	50	9.0	.38	.110	.160	19
APR									
12...	80	5	4.8	--	25	.43	.610	.540	19
MAY									
10...	80	9	7.6	490	49	<.02	1.84	1.58	18
JUN									
14...	100	8	6.8	790	68	.03	4.70	1.32	19

02316218 STUMP CREEK NEAR OCILLA, GA.

LOCATION.--Lat 31°33'07", long 83°13'23", Irwin County, Hydrologic Unit 03110202, at culvert on county road 1.4 mi (2.3 km) upstream of Little Brushy Creek, and 3 mi (4.8 km) southeast of Ocilla.

DRAINAGE AREA.--18.1 mi^2 (46.9 km2).

PERIOD OF RECORD.--July 1979 to June 1982 (discontinued).

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE (DEG C)	TEMPERATURE, AIR (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT										
06...	0735	.00	--	353	7.0	7.0	19.0	19.0	.3	3
NOV										
02...	0900	1.8	--	270	6.8	6.9	12.0	19.5	1.2	11
DEC										
16...	0930	25	--	140	6.4	6.4	4.0	6.0	9.6	74
JAN										
12...	0950	15	--	108	--	6.8	.5	2.0	13.9	97
26...	0945	19	--	110	6.4	6.6	8.0	5.0	8.3	71
FEB										
08...	0905	24	--	93	6.3	6.6	10.0	9.5	5.6	50
MAR										
08...	0955	45	--	83	6.4	6.5	9.0	5.0	8.6	74
APR										
12...	0915	17	85	85	--	6.6	13.0	19.5	7.8	95
MAY										
10...	0830	2.8	122	128	6.7	6.8	18.5	21.5	3.6	39
JUN										
14...	0800	4.4	209	216	6.8	6.7	22.0	24.5	1.1	13

DATE	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	ALKALINITY LAB (MG/L AS CACO3)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT									
06...	90	15	5.6	90	119	<.02	.980	1.65	20
NOV									
02...	70	3	2.4	90	66	.13	.320	1.40	17
DEC									
16...	110	7	2.8	930	12	.68	.060	.260	16
JAN									
12...	60	9	--	--	15	.72	.150	.300	17
26...	80	14	2.8	110	12	.50	.070	.230	25
FEB									
08...	120	5	3.6	310	13	.42	.090	.230	20
MAR									
08...	120	8	3.2	700	16	.36	.130	.200	25
APR									
12...	120	5	1.6	--	14	.45	.080	.240	19
MAY									
10...	80	6	2.4	490	26	.57	.140	.500	17
JUN									
14...	100	6	1.6	700	69	.19	.540	.700	17

02317500 ALAPAHA RIVER AT STATENVILLE, GA.

LOCATION.--Lat 30°42'14", long 83°02'00", Echols County, Hydrologic Unit 03110202, at downstream side of left bank pier of bridge on State Highway 94, 0.2 mi (0.3 km) west of Statenville.

DRAINAGE AREA.--1,400 mi^2 (3,630 km^2), approximately.

PERIOD OF RECORD.--January to June 1921, October 1931 to current year. Monthly discharge only for some periods, published in WSP 1304.

REVISED RECORDS.--WSP 822: 1936, drainage area.

GAGE.--Water-stage recorder. Datum of gage is 76.77 ft (23.400 m) National Geodetic Vertical Datum of 1929 (levels by Georgia Department of Transportation). Jan. 28 to June 30, 1921, nonrecording gage at site 50 ft (15 m) upstream at datum 2.10 ft (0.64 m) higher. Dec. 10, 1931, to Nov. 30, 1949, nonrecording gage at site 200 ft (61 m) upstream at present datum, and Dec. 1, 1949, to Nov. 22, 1952, nonrecording gage at same site and datum.

REMARKS.--Records good. Records of chemical analyses for the water years 1968-74 are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--51 years (1931-82), 1,030 ft^3/s (29.17 m^3/s), 9.99 in/yr (254 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 27,300 ft^3/s (773 m^3/s) Apr. 6, 1948, gage height, 29.8 ft (9.08 m), from graph based on gage readings; minimum, 16 ft^3/s (0.45 m^3/s) Nov. 13, 14, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1862, that of Apr. 6, 1948, from information by local resident.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,500 ft^3/s (70.8 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 25	0200	2980	84.4	12.92	3.938	Feb. 23	1300	*4460	126	17.83	5.435

Minimum discharge, 25 ft^3/s (0.71 m^3/s) Oct. 19, 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	33	65	633	2100	3390	850	2240	316	742	1730	340
2	29	32	75	745	1960	3060	862	2250	339	645	1670	345
3	28	30	71	777	1880	2750	838	2220	326	575	1590	340
4	28	30	75	750	2030	2470	794	2140	334	515	1530	325
5	28	32	83	749	2150	2220	737	2030	410	455	1530	306
6	27	38	84	784	2210	2120	690	1940	412	404	1550	278
7	27	48	77	854	2180	2110	653	1840	398	366	1540	253
8	27	69	73	979	2110	2150	678	1740	447	398	1440	245
9	28	67	72	1110	2060	2030	883	1640	467	425	1220	261
10	29	64	71	1210	2080	1870	1090	1510	434	382	984	294
11	32	65	82	1240	2180	1770	1450	1340	388	331	854	329
12	35	65	114	1380	2310	1720	1590	1140	371	344	784	661
13	33	83	135	1510	2600	1700	1620	940	399	350	786	861
14	31	86	146	1810	2870	1700	1670	777	416	307	859	734
15	29	74	162	2180	3110	1710	1710	646	441	360	922	708
16	28	67	177	2440	3320	1690	1730	550	465	446	983	719
17	27	65	209	2680	3490	1680	1750	477	524	398	1020	651
18	26	65	223	2850	3610	1650	1810	426	594	362	1010	543
19	25	66	207	2890	3770	1600	1860	388	575	457	989	463
20	25	67	204	2840	4000	1570	1880	398	490	528	895	442
21	26	66	210	2790	4220	1540	1840	378	442	501	786	460
22	26	64	220	2800	4370	1480	1680	339	423	451	692	491
23	27	62	262	2870	4420	1400	1460	323	400	406	664	589
24	28	61	314	2950	4390	1300	1260	313	352	374	710	687
25	29	63	348	2970	4260	1200	1130	297	410	470	742	678
26	36	65	358	2910	4100	1100	1190	300	538	736	753	568
27	36	67	358	2800	3930	997	1500	311	693	890	710	464
28	34	67	362	2650	3700	907	1850	295	811	1040	605	389
29	35	65	378	2510	---	854	2100	285	808	1220	495	332
30	35	63	425	2370	---	834	2190	286	795	1430	411	290
31	34	---	490	2230	---	841	---	295	---	1670	358	---
TOTAL	917	1789	6130	60261	85410	53413	41345	30054	14218	17978	30812	14046
MEAN	29.6	59.6	198	1944	3050	1723	1378	969	474	580	994	468
MAX	36	86	490	2970	4420	3390	2190	2250	811	1670	1730	861
MIN	25	30	65	633	1880	834	653	285	316	307	358	245
CFSM	.02	.04	.14	1.39	2.18	1.23	.98	.69	.34	.41	.71	.33
IN.	.02	.05	.16	1.60	2.27	1.42	1.10	.80	.38	.48	.82	.37

CAL YR 1981 TOTAL 50183 MEAN 137 MAX 1030 MIN 25 CFSM .10 IN 1.33
WTR YR 1982 TOTAL 356373 MEAN 976 MAX 4420 MIN 25 CFSM .70 IN 9.47

02317718 NEW RIVER NEAR TIFTON, GA.

LOCATION.--Lat 31°26'33", long 83°28'33", Tift County, Hydrologic Unit 03110203, at bridge on U.S. Highway 82, 1.6 mi (2.6 km) east of Tifton.

DRAINAGE AREA.—10.4 mi^2 (26.9 km^2).

PERIOD OF RECORD.—July 1979 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, Dissolved Oxygen, and Specific Conductance by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	TEMPER-ATURE, AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT 06...	0845	2.2	--	728	7.4	7.4	19.0	22.0	4.7	51
NOV 02...	1030	4.5	--	705	7.4	7.4	18.0	21.5	9.5	101
DEC 16...	1045	28	--	310	7.3	7.1	8.5	11.0	10.0	86
JAN 12...	1130	16	--	210	6.9	7.0	5.0	2.5	13.7	108
26...	1100	18	--	270	7.3	7.2	11.0	6.0	10.2	93
FEB 08...	1010	24	--	155	7.1	7.0	12.5	12.0	6.9	65
MAR 08...	1135	32	--	150	7.0	7.0	11.5	10.5	9.4	86
APR 12...	1130	12	244	248	7.0	7.2	19.0	25.0	8.8	96
MAY 10...	1025	8.8	401	419	7.2	7.3	23.0	27.0	8.2	97
JUN 14...	0935	12	319	334	7.3	7.1	25.0	29.0	6.1	75
JUL 19...	1500	16	498	483	7.5	7.5	27.5	30.0	6.5	84
AUG 16...	1415	15	311	--	7.1	7.4	29.0	34.5	7.9	105
SEP 27...	1515	9.5	--	735	7.7	7.8	25.5	30.0	8.0	100

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 06...	25	3	1.6	430	110	<1	13	.100	5.30	9.0
NOV 02...	5	4	2.8	90	93	1	16	.090	5.08	7.5
DEC 16...	90	10	2.5	4300	45	5	3.4	.120	.890	14
JAN 12...	40	10	--	--	27	<1	3.8	.110	.700	11
26...	40	15	.8	50	39	3	4.3	.100	1.10	15
FEB 08...	60	8	2.4	490	30	6	3.1	.140	.900	11
MAR 08...	80	10	1.2	460	22	5	2.8	.030	.730	15
APR 12...	30	7	2.0	--	43	2	5.3	.090	1.30	8.0
MAY 10...	30	5	1.6	790	60	<1	11	.040	2.96	7.0
JUN 14...	100	20	2.0	13000	65	10	7.7	.040	2.24	7.0
JUL 19...	30	5	2.8	3300	96	6	12	.200	3.92	4.0
AUG 16...	50	7	--	--	58	4	9.5	.110	2.20	5.5
SEP 27...	10	2	1.2	4900	137	1	9.9	.070	4.46	6.0

02317749 WITHLACOOCHEE RIVER ABOVE VALDOSTA, GA.

LOCATION.--Lat 30°55'57", long 83°17'22", Lowndes County, Hydrologic Unit 03110203, at county highway bridge, 1.5 mi (2.4 km) upstream from Bay Branch, and 7 mi (11 km) north of Valdosta.

PERIOD OF RECORD.--November 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, Dissolved Oxygen, and Specific Conductance by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE (DEG C)	TEMPERATURE, AIR (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT										
05...	1415	5.4	--	216	7.0	7.0	19.0	33.0	8.1	88
NOV										
04...	1235	12	--	205	6.8	7.0	15.0	22.0	8.2	82
DEC										
15...	1420	150	--	148	6.6	6.8	12.0	14.5	7.8	73
JAN										
28...	1500	405	--	93	--	6.1	8.0	16.0	9.8	83
FEB										
10...	1505	1250	--	70	5.6	5.6	14.0	15.5	7.4	72
MAR										
10...	1440	550	--	66	5.6	5.9	13.0	25.5	8.5	81
APR										
14...	1440	1060	59	60	5.4	5.8	15.5	28.0	7.2	73
MAY										
12...	1410	200	80	78	6.0	6.3	20.0	32.0	6.7	74
JUN										
16...	1310	19	115	112	6.5	6.6	26.5	34.0	5.3	66
JUL										
22...	1345	105	64	64	6.0	6.4	26.0	35.0	5.6	70
AUG										
18...	1345	355	68	64	5.9	6.1	25.0	29.0	5.5	67
SEP										
29...	1350	112	90	87	--	6.6	20.0	30.0	6.8	76

DATE	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	ALKALINITY LAB (MG/L AS CACO3)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT									
05...	40	2	.8	40	32	.02	.020	.720	10
NOV									
04...	65	3	.7	40	26	.04	.020	.800	10
DEC									
15...	100	10	1.4	430	17	.30	.020	.330	17
JAN									
28...	120	13	1.0	50	6.0	.16	<.020	.080	28
FEB									
10...	240	5	1.3	180	4.0	.03	.020	.080	27
MAR									
10...	160	5	.9	40	5.0	.11	.070	.130	26
APR									
14...	140	6	1.4	50	6.0	.04	.020	.100	26
MAY									
12...	100	5	.6	80	8.0	.21	.020	.220	22
JUN									
16...	140	4	.6	90	17	.26	<.020	.300	18
JUL									
22...	140	6	.6	130	16	.10	.050	.220	25
AUG									
18...	240	9	.3	230	10	.09	.040	.240	28
SEP									
29...	200	5	1.3	170	12	.15	.030	.180	23

02317757 WITHLACOOCHEE RIVER NEAR VALDOSTA, GA.

LOCATION.--Lat 30°51'00", long 83°20'23", Lowndes County, Hydrologic Unit 03110203, at bridge on State Highway 94, 0.8 mi (1.3 km) upstream from Little River, and 4 mi (6 km) northwest of Valdosta.

PERIOD OF RECORD.--November 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, Dissolved Oxygen, and Specific Conductance by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE (DEG C)	TEMPERATURE, AIR (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT 05...	1345	4.7	--	255	6.9	6.8	18.0	33.5	6.1	65
NOV 04...	1215	4.8	--	232	6.8	7.0	15.0	23.5	6.5	65
DEC 15...	1330	80	--	84	6.6	6.7	14.5	16.0	7.1	71
JAN 28...	1435	460	--	90	5.7	6.0	8.5	16.0	9.5	81
FEB 10...	1430	1750	--	69	5.8	5.7	14.0	16.5	7.8	76
MAR 10...	1400	580	--	65	5.6	6.0	13.5	25.5	7.9	76
APR 14...	1400	960	62	62	5.6	5.9	15.5	29.0	7.7	78
MAY 12...	1320	170	97	96	6.0	6.4	20.5	33.0	6.7	75
JUN 16...	1200	5.5	204	209	6.7	6.9	26.0	32.0	5.9	74
JUL 22...	1300	115	87	85	6.4	6.8	26.5	34.5	5.9	74
AUG 18...	1300	590	65	60	5.9	6.1	25.0	29.0	5.7	70
SEP 29...	1305	70	90	86	--	6.5	21.0	30.5	6.9	78

DATE	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	ALKALINITY LAB (MG/L AS CACO3)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 05...	20	6	2.2	2300	35	2.2	.640	.820	6.0
NOV 04...	20	5	2.0	2100	34	3.2	.370	.700	6.0
DEC 15...	120	50	6.4	23000	16	.28	.400	.540	14
JAN 28...	160	14	1.8	130	6.0	.18	.040	.100	27
FEB 10...	150	6	2.2	700	5.0	.04	.040	.100	27
MAR 10...	160	6	.9	195	6.0	.12	.150	.130	26
APR 14...	160	6	1.2	130	6.0	.07	.040	.160	26
MAY 12...	100	5	.8	50	9.0	.45	.070	.350	22
JUN 16...	40	4	1.4	2300	24	2.6	.320	.560	7.0
JUL 22...	120	10	1.0	490	13	.34	.060	.320	14
AUG 18...	240	14	.6	4900	7.0	.10	.040	.240	27
SEP 29...	160	5	2.0	170	10	.22	.040	.200	22

02317800 LITTLE RIVER NEAR TIFTON, GA.

LOCATION.--Lat 31°26'21", long 83°33'38", Tift County, Hydrologic Unit 03110204, at bridge on U.S. Highway 82, 3 mi (4.8 km) west of Tifton.

DRAINAGE AREA.--145 mi2 (376 km2), approximately.

PERIOD OF RECORD.--July 1979 to June 1982 (discontinued).

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBFR 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	TEMPER-ATURE, AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT										
06...	0915	.50	--	135	6.3	6.6	18.0	24.0	.8	9
NOV										
02...	1405	54	--	87	5.6	5.8	13.5	26.0	5.3	51
DEC										
16...	1100	160	--	76	6.0	6.3	7.0	12.0	9.1	75
JAN										
12...	1235	410	--	54	6.0	6.3	2.0	6.0	13.0	95
26...	1125	250	--	69	6.5	6.3	8.0	5.0	9.1	78
FEB										
08...	0805	675	--	51	5.8	6.1	11.0	9.0	8.4	76
MAR										
08...	1225	420	--	62	6.7	6.6	11.0	13.5	7.4	67
APR										
12...	1200	645	52	52	6.0	6.4	13.5	25.5	7.9	77
MAY										
10...	1120	38	72	75	6.1	6.4	17.0	30.0	6.1	64
JUN										
14...	1015	59	63	64	6.2	6.2	22.5	30.0	5.2	61

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT										
06...	450	7	3.5	62	52	2	<.02	.420	.040	46
NOV										
02...	60	5	1.6	230	5.0	1	<.02	.050	.030	17
DEC										
16...	80	6	.8	40	8.0	1	.08	.020	.040	13
JAN										
12...	80	13	--	--	4.0	<1	.20	.040	.020	14
26...	70	15	.6	80	6.0	<1	.27	.020	.020	16
FEB										
08...	120	11	.9	80	5.0	<1	.21	.040	.020	11
MAR										
08...	120	9	1.0	410	11	3	.16	.070	.040	17
APR										
12...	120	17	.9	--	9.0	4	.10	.040	.060	10
MAY										
10...	60	6	.8	50	16	1	.12	.070	.040	18
JUN										
14...	160	5	.9	490	12	1	.20	.050	.060	17

02318500 WITHLACOOCHEE RIVER NEAR QUITMAN, GA.

LOCATION.--Lat 30°47'35", long 83°27'13", Brooks-Lowndes County line, Hydrologic Unit 03110203, at bridge on U.S. Highway 84, 4 mi (6.4 km) upstream from Piscola Creek, 6 mi (9.6 km) east of Quitman, and 9 mi (14.5 km) downstream from Little River.
DRAINAGE AREA.--1,480mi^2 (3,830 km^2).
PERIOD OF RECORD.--July 1977 to current year.
REMARKS.--Laboratory chemical analyses by Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, Dissolved Oxygen, and Specific Conductance by U.S. Geological Survey. Water-discharge records for water years 1929-31, 1938-48 are published in reports of the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE (DEG C)	TEMPERATURE, AIR (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT										
05...	1250	8.5	--	154	6.5	6.7	19.0	33.0	5.8	63
NOV										
04...	1110	8.5	--	97	6.6	6.7	15.0	22.0	7.4	74
DEC										
15...	1245	322	--	88	6.4	6.6	13.0	14.5	8.9	86
JAN										
28...	1345	1620	--	81	--	6.3	9.0	15.0	9.5	82
FEB										
10...	1320	5000	--	60	6.1	5.8	14.0	13.0	7.3	71
MAR										
10...	1250	1680	--	62	5.6	--	13.5	27.0	8.7	84
APR										
14...	1245	2250	62	61	5.8	6.2	16.0	28.0	7.8	80
MAY										
12...	1255	574	74	73	6.2	6.5	22.0	31.0	6.7	77
JUN										
16...	1050	410	68	67	6.6	6.7	27.5	33.0	6.3	81
JUL										
22...	1140	577	68	69	6.4	6.6	27.0	33.5	6.0	76
AUG										
18...	1145	1670	54	50	6.1	6.3	25.5	28.0	6.0	74
SEP										
29...	1155	174	80	79	--	6.7	22.0	30.0	7.4	85

DATE	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	ALKALINITY LAB (MG/L AS CACO3)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT									
05...	70	4	.8	<30	19	1.4	.060	.790	16
NOV									
04...	40	7	.5	90	17	.64	<.020	.690	7.0
DEC									
15...	120	6	1.0	21000	8.0	.38	.080	.220	17
JAN									
28...	160	14	.8	20	7.0	.34	.020	.060	23
FEB									
10...	160	8	1.5	490	4.0	.10	.030	.080	23
MAR									
10...	160	8	.6	50	6.0	.21	.150	.100	21
APR									
14...	160	8	1.1	80	7.0	.15	.030	.140	22
MAY									
12...	80	8	.4	50	10	.36	.050	.170	16
JUN									
16...	120	8	.6	20	11	.32	<.020	.160	15
JUL									
22...	140	8	1.4	105	10	.27	.050	.160	17
AUG									
18...	100	20	.6	4900	8.0	.12	.030	.180	20
SEP									
29...	140	5	1.1	70	10	.33	.020	.220	18

02318700 OKAPILCO CREEK AT STATE HIGHWAY 33, NEAR QUITMAN, GA.

LOCATION.--Lat 30°49'32", long 83°33'45", Brooks County, Hydrologic Unit 03110203, at bridge on State Highway 33, 3.0 mi (4.8 km) north of Quitman.

DRAINAGE AREA.--269 mi^2 (697 km^2), approximately.

PERIOD OF RECORD.--December 1979 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 110 ft (34 m), from topographic map.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,100 ft^3/s (116 m^3/s) Mar. 15, 1980, gage height, 13.45 ft (4.100 m); no flow Sept. 6-8, 9-28, Oct. 10-27, 1980, July 15-18, Oct. 1 to Nov. 5, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,200 ft^3/s (34.0 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 7	1900	*1380	39.1	11.47	3.496
Feb. 18	1700	1240	35.1	11.27	3.435

Minimum discharge, no flow Oct. 1 to Nov. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	1.4	97	185	193	95	640	66	196	54	23
2	.00	.00	6.2	98	175	175	80	619	62	138	60	18
3	.00	.00	11	93	327	162	71	390	57	87	102	14
4	.00	.00	7.4	119	713	152	67	215	50	62	174	10
5	.00	.00	5.7	179	701	146	66	125	47	45	194	8.1
6	.00	2.1	4.3	162	1010	200	143	84	41	33	187	6.7
7	.00	2.2	3.5	158	1310	288	214	67	35	26	180	5.4
8	.00	.96	2.9	193	1230	314	198	60	33	20	114	4.6
9	.00	.44	2.4	206	970	356	289	57	30	18	81	22
10	.00	.66	2.0	209	840	512	332	51	24	21	62	66
11	.00	8.7	1.6	236	669	626	477	45	18	31	50	116
12	.00	15	1.4	260	539	562	655	49	14	39	45	151
13	.00	13	1.6	323	629	414	724	59	10	38	46	162
14	.00	8.5	2.4	485	625	309	667	61	7.2	30	60	161
15	.00	5.4	17	535	696	241	491	52	5.1	24	80	156
16	.00	3.9	31	552	916	193	331	39	3.8	21	83	119
17	.00	4.8	26	738	1100	161	226	31	3.2	26	78	82
18	.00	5.9	20	923	1210	141	164	26	3.9	24	67	61
19	.00	5.8	17	939	1140	125	141	23	5.8	21	53	48
20	.00	4.9	14	805	944	112	128	21	9.1	19	46	41
21	.00	3.7	14	657	769	101	123	17	15	20	47	55
22	.00	2.9	15	483	673	93	121	16	17	43	40	60
23	.00	2.2	22	370	581	86	125	34	15	37	33	58
24	.00	1.9	25	342	461	86	116	48	13	32	42	61
25	.00	1.6	27	300	358	96	125	50	11	26	77	60
26	.00	1.4	28	274	290	111	509	44	11	20	89	49
27	.00	1.5	28	275	245	123	730	42	19	19	71	39
28	.00	1.5	28	263	217	126	789	58	31	31	54	31
29	.00	1.4	36	240	---	141	695	73	62	49	43	24
30	.00	1.4	52	212	---	141	589	101	159	73	35	19
31	.00	---	56	189	---	117	---	80	---	63	29	---
TOTAL	.00	101.76	509.8	10915	19523	6603	9481	3277	878.1	1332	2376	1730.8
MEAN	.000	3.39	16.4	352	697	213	316	106	29.3	43.0	76.6	57.7
MAX	.00	15	56	939	1310	626	789	640	159	196	194	162
MIN	.00	.00	1.4	93	175	86	66	16	3.2	18	29	4.6
CFSM	.000	.01	.06	1.31	2.59	.79	1.18	.39	.11	.16	.29	.21
IN.	.00	.01	.07	1.51	2.70	.91	1.31	.45	.12	.18	.33	.24

CAL YR 1981 TOTAL 13757.15 MEAN 37.7 MAX 814 MIN .00 CFSM .14 IN 1.90

WTR YR 1982 TOTAL 56727.46 MEAN 155 MAX 1310 MIN .00 CFSM .58 IN 7.84

02318725 OKAPILCO CREEK AT QUITMAN, Ga.
(Formerly published as Okapilco Creek near Quitman)

LOCATION.--Lat 30°47'10", long 83°31'33", Brooks County, Hydrologic Unit 03110203, at U.S. Highways 84 and 221, 1.8 mi (2.9 km) east of Quitman.

DRAINAGE AREA.--278 mi^2 (720 km^2), approximately.

PERIOD OF RECORD.--November 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, Dissolved Oxygen, and Specific Conductance by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	TEMPER-ATURE, AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT 05...	1315	1.0	--	393	7.4	7.3	20.0	34.0	1.3	14
NOV 04...	1130	2.5	--	353	7.2	7.2	14.0	23.5	.9	9
DEC 15...	1305	96	--	285	6.7	7.1	12.5	13.0	2.2	21
JAN 28...	1405	280	--	106	5.8	5.7	8.0	15.5	9.2	78
FEB 10...	1355	948	--	62	5.7	5.6	14.0	16.5	6.6	64
MAR 10...	1320	372	--	67	5.6	6.0	13.0	25.5	8.0	76
APR 14...	1310	714	--	58	--	5.9	15.5	28.0	6.4	65
MAY 12...	1230	65	84	82	6.0	6.3	20.0	32.0	5.3	59
JUN 16...	1115	12	124	122	6.4	6.7	25.5	34.0	2.1	26
JUL 22...	1205	35	68	67	6.2	6.6	25.5	34.0	4.7	58
AUG 18...	1215	74	74	73	6.1	6.4	24.5	29.0	5.3	64
SEP 29...	1225	23	105	100	--	6.6	20.0	30.0	6.4	71

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 05...	50	27	14	4300	158	<.02	7.40	3.80	18
NOV 04...	20	25	>34	23000	97	2.2	1.94	2.90	33
DEC 15...	70	14	7.0	2300	49	7.5	5.10	1.69	14
JAN 28...	90	15	1.2	80	5.0	.96	.080	.080	23
FEB 10...	240	10	1.4	260	4.0	.18	.070	.100	23
MAR 10...	120	10	.8	460	6.0	.46	.170	.130	20
APR 14...	160	15	1.4	490	4.0	.26	.050	.160	20
MAY 12...	100	13	1.4	330	9.0	.39	.150	.300	18
JUN 16...	140	9	3.0	3600	22	.34	.560	.600	19
JUL 22...	160	36	2.4	17000	11	.38	.150	.420	14
AUG 18...	200	17	1.0	230	10	.20	.120	.360	20
SEP 29...	140	9	2.6	4700	13	.35	.170	.320	17

02318960 WITHLACOOCHEE RIVER NEAR CLYATTVILLE, GA.

LOCATION.--Lat 30°38'07", long 83°18'41", Lowndes County, Hydrologic Unit 03110203, at bridge on State Highway 31, 4.3 mi (6.9 km) south of Clyattville.
DRAINAGE AREA.--2,030 mi^2 (5,260 km^2), approximately.
PERIOD OF RECORD.--November 1974 to current year.
REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, Dissolved Oxygen, and Specific Conductance by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	TEMPER-ATURE, AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT										
05...	1210	65	--	225	--	7.7	19.0	33.0	6.2	67
NOV										
04...	1040	64	--	250	7.6	7.9	16.5	22.5	6.6	68
DEC										
15...	1215	390	--	170	6.9	7.3	12.5	13.5	8.6	82
JAN										
28...	1315	2630	--	83	--	6.4	9.0	15.0	8.7	75
FEB										
10...	1225	5240	--	58	5.8	5.9	14.0	13.0	7.6	74
MAR										
10...	1200	2690	--	64	6.1	6.5	14.0	25.5	8.4	82
APR										
14...	1210	3210	60	60	6.0	6.3	16.0	27.0	7.8	80
MAY										
12...	1200	914	99	98	6.8	7.1	21.5	30.5	5.6	64
JUN										
16...	0955	315	117	121	7.2	7.3	26.0	30.0	4.7	59
JUL										
22...	1045	752	82	81	7.0	7.1	26.5	32.0	5.4	68
AUG										
18...	1040	1740	67	62	6.8	--	25.5	27.0	5.8	72
SEP										
29...	1055	342	120	120	6.8	7.3	22.0	29.5	5.7	66

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT											
05...	20	2	--	.3	<35	96	<1	.22	.020	.160	8.0
NOV											
04...	10	1	--	.2	40	99	1	.47	<.020	.200	2.5
DEC											
15...	100	4	--	1.0	230	26	3	.24	.100	.160	14
JAN											
28...	100	15	--	1.1	50	7.0	4	.38	.020	.080	27
FEB											
10...	160	8	--	1.2	210	4.0	4	.10	.060	.080	24
MAR											
10...	120	8	--	.9	130	11	<1	.24	.140	.120	20
APR											
14...	160	10	--	1.1	330	8.0	6	.20	.040	.160	30
MAY											
12...	60	7	--	.4	<20	26	7	.40	.060	.190	15
JUN											
16...	100	5	--	.3	70	38	1	.27	<.020	.140	11
JUL											
22...	120	8	32	.6	460	19	6	.29	.040	.160	12
AUG											
18...	200	11	49	.9	70	12	<1	.17	.030	.160	19
SEP											
29...	120	5	31	1.0	20	36	<1	.28	.030	.160	14

02327205 OCHLOCKONEE RIVER NEAR MOULTRIE, GA.

LOCATION.--Lat 31°08'31", long 83°48'13", Colquitt County, Hydrologic Unit 03120002, at bridge on county road 1 mi (1.6 km) from U.S. Highway 319, and 3.0 mi (4.8 km) south of Moultrie.

DRAINAGE AREA.—103 mi2 (267 km2).

PERIOD OF RECORD.—July 1979 to current year.

REMARKS.—Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, Dissolved Oxygen, and Specific Conductance by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	TEMPER-ATURE, AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT										
07...	0730	8.0	--	1065	7.4	7.4	19.0	22.0	.4	4
NOV										
03...	0925	8.5	--	980	7.2	7.4	13.0	22.0	.8	8
DEC										
14...	0930	17	--	370	6.7	7.1	7.0	17.5	2.8	23
JAN										
27...	0930	140	--	112	6.6	6.4	8.5	.0	8.9	76
FEB										
09...	0930	230	--	75	6.2	6.2	13.0	18.5	5.1	49
MAR										
09...	0850	185	--	80	6.6	6.4	10.0	10.0	7.6	76
APR										
13...	0900	280	92	92	--	6.2	13.5	20.0	7.1	69
MAY										
11...	0830	64	132	135	6.4	6.6	18.0	21.5	4.1	44
JUN										
15...	0615	7.0	449	456	7.0	7.0	25.0	23.5	.1	1
JUL										
20...	0800	58	144	140	6.5	6.8	24.0	26.0	.7	8
AUG										
17...	0800	56	--	90	6.6	6.5	24.5	25.0	2.2	27
SEP										
28...	0800	6.4	510	516	7.2	7.1	20.5	20.0	1.3	15

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT										
07...	35	34	>116	1500000	246	6	.02	21.6	4.15	23
NOV										
03...	40	11	18	2400000	205	6	<.02	26.4	3.30	22
DEC										
14...	70	5	11	1500	55	2	.18	5.82	.960	19
JAN										
27...	80	13	3.5	230	9.0	<1	.47	.640	.140	20
FEB										
09...	160	7	1.6	50	7.0	1	.25	.460	.140	16
MAR										
09...	120	8	2.7	--	10	2	.44	.420	.200	18
APR										
13...	160	15	3.5	210	8.0	6	.18	.340	.180	20
MAY										
11...	70	11	2.5	700	17	3	.83	1.32	.420	17
JUN										
15...	120	10	14	17000	72	5	.04	7.60	1.26	25
JUL										
20...	120	11	5.0	170000	24	4	--	--	--	--
AUG										
17...	160	11	4.0	330	19	3	.19	1.63	.420	21
SEP										
28...	50	5	4.5	1100	77	<1	.41	6.25	1.56	15

02327500 OCHLOCKONEE RIVER NEAR THOMASVILLE, GA.

LOCATION.--Lat 30°52'32", long 84°02'44", Thomas County, Hydrologic Unit 03120002, at bridge on U.S. Highway 84, 2 mi (3.2 km) upstream from Seaboard Coast Line Railroad bridge, 4 mi (6.4 km) upstream from Barnetts Creek, 5 mi (8.0 km) northwest of Thomasville, and 6 mi (9.6 km) downstream from Little Ochlockonee River.

DRAINAGE AREA.--550 mi^2 (1,420 km^2), approximately.

PERIOD OF RECORD.--February 1968 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, Dissolved Oxygen, and Specific Conductance by U.S. Geological Survey. Records of discharge for the water years 1937-71 are published in reports of the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE (DEG C)	TEMPERATURE, AIR (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT 07...	0930	17	--	642	7.2	7.3	18.0	23.5	5.3	57
NOV 03...	1015	28	--	384	--	7.2	14.5	23.0	4.9	48
DEC 14...	1100	64	--	210	6.7	6.9	5.5	18.0	10.8	87
JAN 27...	1030	780	--	92	6.3	6.3	8.5	2.0	9.5	81
FEB 09...	1030	1700	--	62	6.0	6.0	13.0	21.5	8.5	82
MAR 09...	1000	1040	--	67	6.6	6.3	13.0	14.5	8.4	79
APR 13...	1015	1110	68	68	6.0	6.3	15.0	22.0	8.0	80
MAY 11...	0950	468	81	84	6.4	6.5	20.0	26.5	6.6	73
JUN 15...	0730	54	172	172	6.8	6.9	25.5	25.5	3.0	37
JUL 20...	0900	197	121	118	7.2	7.4	26.0	29.0	5.4	67
AUG 17...	0900	462	79	74	6.6	6.4	25.5	29.0	4.8	59
SEP 28...	0915	66	155	156	6.7	6.7	21.0	24.0	5.0	--

DATE	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	ALKALINITY LAB (MG/L AS CACO3)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 07...	30	5	1.5	40	70	7.7	.120	3.75	6.0
NOV 03...	55	10	2.0	150	52	3.0	.190	1.90	10
DEC 14...	70	7	1.8	230	27	1.6	.280	.720	15
JAN 27...	80	16	1.1	2200	8.0	.57	.100	.200	19
FEB 09...	140	10	1.0	8	6.0	.30	.040	.120	18
MAR 09...	120	13	.9	--	9.0	.40	.140	.200	17
APR 13...	110	12	1.2	2300	8.0	.47	.080	.200	19
MAY 11...	80	15	1.1	130	10	.59	.160	.240	13
JUN 15...	140	13	1.8	230	26	1.2	.430	.660	16
JUL 20...	120	33	1.4	4900	24	.86	.160	.420	16
AUG 17...	80	15	.8	75	12	.44	.100	.320	17
SEP 28...	100	10	1.0	230	25	1.2	.300	.460	12

02328200 OCHLOCKONEE RIVER NEAR CALVARY, GA.

LOCATION.--Lat 30°43'53", long 84°14'12", Grady County, Hydrologic Unit 03120003, at county highway bridge, 1.5 mi (2.4 km) downstream from Tired Creek, and 6.5 mi (10.5 km) east of Calvary.

DRAINAGE AREA.--930 mi^2 (2,410 km^2), approximately.

PERIOD OF RECORD.--August 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, Dissolved Oxygen, and Specific Conductance by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	TEMPER-ATURE, AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT										
07...	0910	34	--	300	7.3	7.3	18.5	23.5	6.2	67
NOV										
03...	1050	79	--	326	--	7.3	15.0	24.0	8.1	81
DEC										
14...	1150	190	--	400	--	7.3	5.5	18.0	9.6	77
JAN										
27...	1105	1560	--	110	6.6	6.6	9.0	6.0	9.2	79
FEB										
09...	1110	4210	--	55	5.8	6.1	13.5	22.5	7.0	68
MAR										
09...	1035	1630	--	70	6.4	6.5	13.0	15.5	8.3	78
APR										
13...	1050	2500	--	91	6.0	6.4	15.0	22.5	7.2	72
MAY										
11...	1030	645	87	89	6.4	6.7	20.0	28.0	6.6	73
JUN										
15...	0815	129	179	179	6.9	7.1	25.5	25.5	5.7	70
JUL										
20...	0940	306	136	138	6.8	7.2	26.0	30.5	6.1	76
AUG										
17...	0945	1080	--	103	6.4	6.4	25.5	29.5	5.3	65
SEP										
28...	0955	165	138	139	6.4	6.8	19.5	25.5	6.6	72

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT												
07...	40	6	18	.7	430	45	2	.44	.060	.50	.580	7.0
NOV												
03...	70	13	25	1.3	90	26	8	1.1	.050	.60	.640	6.0
DEC												
14...	60	7	29	.9	230	20	2	1.7	.140	.60	.540	9.3
JAN												
27...	100	17	33	1.0	50	8.0	2	.45	.050	.90	.110	19
FEB												
09...	160	15	38	1.2	20	5.0	5	.16	.020	.70	.100	16
MAR												
09...	120	20	28	1.0	--	9.0	9	.30	.090	.80	.160	16
APR												
13...	120	18	39	1.0	230	8.0	6	.33	.070	.80	.160	15
MAY												
11...	--	16	32	.7	120	14	4	.70	.140	.62	.230	10
JUN												
15...	100	13	24	.8	140	22	4	1.6	.050	1.30	.480	12
JUL												
20...	100	19	--	.9	1100	16	9	--	--	--	--	--
AUG												
17...	200	15	--	1.0	50	11	9	.43	.060	--	.240	15
SEP												
28...	100	12	--	.7	50	23	2	1.0	.060	--	.290	10

02330450 CHATTAHOOCHEE RIVER AT HELEN, GA.

LOCATION.--Lat 34°42'03", long 83°43'44", White County, Hydrologic Unit 03130001, on downstream side of bridge on Georgia Highways 17 and 75 at Helen, and 1.1 mi (1.8 km) downstream from Smith Creek.

DRAINAGE AREA.--44.7 mi^2 (116 km^2).

PERIOD OF RECORD.--May 1981 to current year. Miscellaneous low-flow measurements, water years 1953, 1955.

GAGE.--Water-stage recorder. Datum of gage is 1,404.04 ft (427.951 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for periods of no gage-height record, Oct. 22 to Nov. 2, Dec. 28 to Jan. 4, Mar. 7-30, and Sept. 20-30, which are fair. Some regulation at low flow on Smith Creek by Unicoi Lake at Unicoi State Park.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,750 ft^3/s (49.6 m^3/s) Feb. 3, 1982, gage height, 4.19 ft (1.277 m); minimum daily discharge, 28 ft^3/s (0.79 m^3/s) Oct. 7, 8, 1981.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of August 23, 1967, reached a discharge of 11,000 ft^3/s (312 m^3/s) from contracted-opening computation at highway bridge 2 mi (3.2 km) downstream at a drainage area of 48.2 mi^2 (km^2).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,200 ft^3/s (34.0 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 3	0515	*1750	49.6	4.19	1.277
Aug. 10	2315	1390	39.4	3.66	1.116

Minimum daily discharge, 28 ft^3/s (0.79 m^3/s) Oct. 7, 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	38	172	240	210	196	121	134	107	63	122	99
2	29	37	106	160	249	197	119	129	87	61	86	95
3	29	36	74	720	1220	189	142	125	83	62	74	73
4	29	35	60	700	531	178	119	121	112	59	66	63
5	29	40	53	308	355	168	130	117	98	64	64	58
6	29	39	49	213	286	170	125	114	84	65	61	56
7	28	34	47	172	245	235	119	114	80	63	60	55
8	28	33	45	143	221	200	136	152	77	61	76	53
9	30	33	42	129	273	180	135	116	76	84	125	52
10	47	33	41	110	240	170	125	112	84	90	244	52
11	35	34	40	108	215	165	121	109	77	76	322	88
12	33	32	41	105	199	160	118	106	87	63	133	72
13	31	32	40	100	189	155	117	104	104	58	116	64
14	30	32	71	98	175	150	118	102	81	56	129	60
15	31	32	69	97	178	210	115	99	77	68	99	56
16	30	32	59	96	232	185	118	100	74	87	90	53
17	29	33	54	95	334	175	145	106	75	103	108	50
18	35	31	50	94	265	170	127	105	108	76	97	50
19	30	31	46	105	231	160	123	105	75	71	86	49
20	30	45	46	108	209	152	122	102	70	62	79	48
21	30	32	41	284	196	145	117	101	67	59	76	47
22	31	32	62	184	181	141	112	101	69	63	71	47
23	45	32	115	191	170	138	109	98	66	57	69	46
24	40	48	107	171	165	135	108	96	63	79	69	46
25	37	36	159	146	157	135	211	96	63	79	67	47
26	100	34	132	128	161	130	296	95	62	70	63	54
27	70	100	103	119	252	125	218	96	73	61	64	54
28	50	76	88	115	202	124	177	96	92	58	64	50
29	45	50	82	111	---	122	156	89	77	111	59	47
30	41	82	75	108	---	121	142	87	69	116	59	45
31	39	---	400	211	---	121	---	86	---	134	64	---
TOTAL	1151	1214	2569	5669	7541	5002	4141	3313	2417	2279	2962	1729
MEAN	37.1	40.5	82.9	183	269	161	138	107	80.6	73.5	95.5	57.6
MAX	100	100	400	720	1220	235	296	152	112	134	322	99
MIN	28	31	40	94	157	121	108	86	62	56	59	45
CFSM	.83	.91	1.86	4.10	6.03	3.61	3.09	2.40	1.81	1.65	2.14	1.29
IN.	.96	1.01	2.14	4.73	6.29	4.17	3.45	2.76	2.02	1.90	2.47	1.44

WTR YR 1982 TOTAL 39987 MEAN 110 MAX 1220 MIN 28 CFSM 2.47 IN 33.35

02331600 CHATTAHOOCHEE RIVER NEAR CORNELIA, GA.

LOCATION.--Lat 34°32'27", long 83°37'14", Habersham-White County line, Hydrologic Unit 03130001, on downstream side of highway bridge, 1 mi (1.6 km) downstream from Soquee River, 6 mi (9.7 km) northwest of Cornelia, and at mile 401.4 (645.9 km).
DRAINAGE AREA.--315 mi^2 (816 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1957 to current year.
REVISED RECORDS.--WSP 2106: 1963(M).
GAGE.--Water-stage recorder. Datum of gage is 1,128.53 ft (343.976 m) National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).
REMARKS.--Records good except for those of poor gage-height record, Oct. 2-6, 8, 9, 17, 18, Aug. 29 to Sept. 1, and Sept. 5-11, which are fair. Some regulation at low flow from Habersham Mill powerplant.
AVERAGE DISCHARGE.--25 years, 852 ft^3/s (24.13 m^3/s), 36.73 in/yr (933 mm/yr).
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26,400 ft^3/s (478 m^3/s) Mar. 12, 1963, gage height, 20.55 ft (6.264 m), from rating curve extended above 13,000 ft^3/s (368 m^3/s) on basis of contracted-opening measurement of peak flow; minimum daily, 91 ft^3/s (2.58 m^3/s) Sept. 7, 1957.
EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 6,200 ft^3/s (176 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 3	1830	11200	317	9.91	3.021
Feb. 3	0830	*14500	411	12.12	3.69

Minimum daily discharge, 120 ft^3/s (3.40 m^3/s) Oct. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	208	166	1050	1690	1150	1110	727	783	809	424	749	350
2	184	292	865	943	1680	1060	684	760	632	402	562	746
3	141	254	593	5090	9870	1010	793	753	561	310	471	620
4	120	255	499	6350	2780	962	729	711	580	257	406	505
5	163	248	366	1940	1800	928	794	690	553	348	379	270
6	184	259	217	1340	1520	888	774	676	519	452	401	250
7	203	209	372	1110	1290	1510	709	662	531	349	342	300
8	148	150	302	938	1170	1150	752	760	524	361	294	352
9	174	197	293	850	1340	1020	872	676	499	300	744	318
10	199	250	311	768	1270	970	763	663	466	518	718	308
11	149	242	333	732	1120	937	728	631	410	414	1280	352
12	196	244	197	710	1070	913	723	618	413	378	778	440
13	230	241	176	690	1020	874	694	609	653	337	613	466
14	223	189	464	670	959	864	706	598	554	433	510	392
15	213	143	566	645	928	1080	682	482	514	397	503	355
16	209	229	536	621	1290	1180	694	568	476	492	525	360
17	176	238	467	581	1720	1020	760	609	470	547	617	358
18	147	229	379	602	1350	976	770	613	554	279	610	257
19	226	227	271	642	1170	888	723	622	372	470	588	230
20	225	249	269	687	1080	870	723	618	331	403	508	356
21	183	229	304	1880	1020	843	695	604	466	319	380	309
22	215	140	410	1270	984	835	660	485	443	433	296	287
23	289	225	460	1130	931	787	640	549	413	430	435	300
24	188	307	631	1070	910	776	603	566	417	387	446	284
25	161	298	1020	912	883	778	848	601	432	283	366	236
26	754	182	876	803	864	778	1660	659	316	433	360	220
27	619	280	660	741	1280	713	1290	578	474	376	360	331
28	416	647	604	715	1190	718	1040	666	598	360	396	297
29	311	354	557	636	---	733	902	561	521	406	260	285
30	283	528	511	656	---	723	812	554	504	1010	366	285
31	222	---	1730	852	---	721	---	520	---	700	330	---
TOTAL	7359	7701	16289	38264	43639	28615	23950	19445	15005	13008	15593	10419
MEAN	237	257	525	1234	1559	923	798	627	500	420	503	347
MAX	754	647	1730	6350	9870	1510	1660	783	809	1010	1280	746
MIN	120	140	176	581	864	713	603	482	316	257	260	220
CFSM	.75	.82	1.67	3.92	4.95	2.93	2.53	1.99	1.59	1.33	1.60	1.10
IN.	.87	.91	1.92	4.52	5.15	3.38	2.83	2.30	1.77	1.54	1.84	1.23

CAL YR 1981 TOTAL 155973 MEAN 427 MAX 2460 MIN 120 CFSM 1.36 IN 18.42
WTR YR 1982 TOTAL 239287 MEAN 656 MAX 9870 MIN 120 CFSM 2.08 IN 28.26

02331600 CHATTAHOOCHEE RIVER NEAR CORNELIA, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1968 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, Dissolved Oxygen, and Specific Conductance by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	TEMPER-ATURE, AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
NOV 18...	1250	229	--	28	6.8	6.9	9.5	20.0	10.6	--
JAN 20...	1130	690	--	27	7.1	6.8	6.0	18.0	11.8	98
MAR 18...	1720	936	--	22	--	6.9	15.5	21.0	9.8	--
MAY 11...	1230	634	24	24	6.9	7.0	18.0	25.0	10.0	110
JUL 22...	1100	466	22	25	7.1	7.0	25.0	28.0	8.2	104
SEP 15...	0900	360	27	23	7.2	7.0	20.0	27.5	7.4	86

DATE	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV 18...	7	.8	30	9.0	.13	<.020	.020	<1.0
JAN 20...	13	1.2	120	7.0	.31	.080	<.020	<1.0
MAR 18...	19	.3	900	8.0	.23	<.020	.030	<1.0
MAY 11...	6	.5	80	9.0	.17	.120	.030	2.0
JUL 22...	12	.6	310	10	.20	.030	.040	<1.0
SEP 15...	8	1.2	490	10	.18	.040	.030	1.0

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
OCT 13...	1645	236	16.0	7	4.5
DEC 01...	1730	1350	8.0	131	477
FEB 18...	1155	1320	10.5	24	86
MAR 29...	1650	725	10.0	4	7.8
MAY 10...	1345	676	17.5	9	16
JUN 22...	1130	446	22.0	11	13
AUG 02...	1345	557	23.0	23	35
SEP 13...	1550	433	20.5	17	20

02333500 CHESTATEE RIVER NEAR DAHLONEGA, GA.

LOCATION.--Lat 34°31'41", long 83°56'23", Lumpkin County, Hydrologic Unit 03130001, on left bank 250 ft (76 m) upstream from Bearden Bridge on State Highway 52, 2 mi (3.2 km) downstream from Ballplay Creek, 2.5 mi (4.0 km) east of Dahlonega, and 3.5 mi (5.6 km) upstream from Yahoola Creek.

DRAINAGE AREA.--153 mi^2 (396 km^3).

PERIOD OF RECORD.--June 1929 to January 1932, April 1940 to current year. Monthly discharge only for some periods, published in WSP 1304.

GAGE.--Water-stage recorder. Datum of gage is 1,128.6 ft (343.997 m) National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

REMARKS.--Records good.

AVERAGE DISCHARGE.--44 years (1929-31, 1940-82), 368 ft^3/s (10.42 m^3/s), 32.66 in/yr (830 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,700 ft^3/s (643 m^3/s) Aug. 23, 1967, gage height, 25.17 ft (7.672 m); minimum daily, 49 ft^3/s (1.39 m^3/s) Oct. 4, 1931, Oct. 26, 1941.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 12, 1907 reached a stage of about 25 ft (7.6 m), from information by local resident. Flow increased by failure of dam above station.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,600 ft^3/s (73.6 m^3/s) and maximum (*):

		Discharge		Gage height				Discharge		Gage height	
Date	Time	(ft^3/s)	(m^3/s)	(ft)	(m)	Date	Time	(ft^3/s)	(m^3/s)	(ft)	(m)
Jan. 3	1815	5860	166	10.69	3.258	Feb. 3	0645	*9100	258	14.31	4.362
Jan. 21	1130	2610	73.9	6.17	1.881						

Minimum discharge, 64 ft^3/s (1.81 m^3/s) Oct. 9, gage height, 0.55 ft (0.168 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	74	93	531	777	494	530	266	332	252	163	513	169
2	73	91	372	397	1320	485	262	313	204	150	268	234
3	72	90	227	2730	5700	450	309	299	191	150	215	170
4	71	89	192	2970	1580	419	274	287	206	144	189	152
5	70	90	167	1040	1020	398	317	277	222	141	176	145
6	68	94	154	633	804	383	309	269	191	150	179	140
7	67	90	146	479	652	629	277	268	181	152	164	137
8	65	87	140	387	572	487	300	395	176	205	172	135
9	64	87	132	337	726	431	369	290	172	153	406	133
10	85	86	127	287	651	405	303	269	172	238	584	130
11	92	86	124	258	552	388	284	259	176	224	782	148
12	77	85	124	249	500	373	273	252	170	169	399	189
13	74	84	123	241	470	356	270	242	254	153	286	153
14	73	83	189	236	431	344	285	235	190	144	254	148
15	71	83	213	230	429	426	270	229	174	180	229	139
16	70	82	182	224	706	465	264	226	169	174	209	131
17	69	82	164	215	935	403	299	231	168	228	277	126
18	72	82	157	205	709	378	306	234	250	181	293	126
19	93	81	155	239	593	362	274	260	183	181	371	123
20	83	97	150	279	520	358	285	258	166	155	230	120
21	81	94	154	1350	476	341	274	248	159	145	204	123
22	80	87	184	707	436	333	260	227	158	137	189	115
23	114	86	344	607	411	315	250	228	164	131	179	114
24	128	122	357	520	394	311	246	229	154	189	179	112
25	99	114	541	417	376	307	386	222	150	238	174	113
26	249	100	411	359	378	302	819	223	149	257	164	129
27	177	177	299	323	697	284	629	212	155	190	159	136
28	129	358	249	302	605	276	479	224	229	173	165	122
29	109	173	221	286	---	272	396	215	208	201	154	116
30	99	218	200	279	---	273	354	202	183	525	150	113
31	96	---	893	454	---	270	---	197	---	379	151	---
TOTAL	2844	3271	7622	18017	23137	11754	9889	7852	5576	6000	8064	4141
MEAN	91.7	109	246	581	826	379	330	253	186	194	260	138
MAX	249	358	893	2970	5700	629	819	395	254	525	782	234
MIN	64	81	123	205	376	270	246	197	149	131	150	112
CFSM	.60	.71	1.61	3.80	5.40	2.48	2.16	1.65	1.22	1.27	1.70	.90
IN.	.69	.80	1.85	4.38	5.63	2.86	2.40	1.91	1.36	1.46	1.96	1.01

CAL YR 1981 TOTAL 72421 MEAN 198 MAX 2090 MIN 64 CFSM 1.29 IN 17.61
WTR YR 1982 TOTAL 108167 MEAN 296 MAX 5700 MIN 64 CFSM 1.94 IN 26.30

02334430 CHATTAHOOCHEE RIVER AT BUFORD DAM, NEAR BUFORD, GA.

LOCATION.--Lat 34°09'25", long 84°04'44", Gwinnett-Forsyth County line, Hydrologic Unit 03130001, on right bank 1,200 ft (366 m) downstream from Buford Dam, 2.4 mi (3.9 km) upstream from bridge on State Highway 20, 4 mi (6.4 km) northwest of Buford, and at mile 348.1 (560.0 km).

DRAINAGE AREA.--1,040 mi^2 (2,690 km^2), approximately.

PERIOD OF RECORD.--June to December 1901 (figures of daily discharge for the months of August and December, published in WSP 197, are unreliable and should not be used), October 1941 to current year. Monthly discharge only for some periods, published in WSP 1304.

REVISED RECORDS.--WDR GA-79-1: 1972-78 (maximum gage heights only). See also PERIOD OF RECORD.

GAGE.--Water-stage recorder. Datum of gage is 912.04 ft (277.990 m) National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). June 24 to Dec. 21, 1901, Jan. 27, 1942, to Dec. 3, 1944, nonrecording gage, and Dec. 4, 1944, to Dec. 31, 1947, water-stage recorder at site 2.5 mi (4.0 km) downstream, and Jan. 1, 1948, to Sept. 30, 1971, water-stage recorder at site 2.4 mi (3.9 km) downstream, all at different datum.

REMARKS.--Records good. Flow regulated by Lake Sidney Lanier beginning January 1956 (See "Lakes and Reservoirs in Apalachicola River basin", station 02334400.)

AVERAGE DISCHARGE.--41 years, 2,148 ft^3/s (60.83 m^3/s), 28.05 in/yr (712 mm/yr), adjusted for storage since 1956.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 55,000 ft^3/s (1,560 m^3/s) Jan. 8, 1946, gage height, 32.6 ft (9.94 m), from floodmark, from rating curve extended above 13,000 ft^3/s (368 m^3/s) on basis of peak flows passing upstream and downstream stations; minimum daily, 262 ft^3/s (7.42 m^3/s) May 18, 1958.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1921, that of Jan. 8, 1946.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 10,400 ft^3/s (295 m^3/s) Nov. 24, gage height, 6.78 ft (2.067 m); minimum daily discharge, 482 ft^3/s (13.7 m^3/s) Mar. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3240	1130	2020	1140	1090	1020	1140	851	1030	1030	834	1430
2	3250	2230	2040	706	920	1210	1130	854	1020	1040	1550	1430
3	1130	2210	2020	775	490	1030	852	1150	1020	826	1560	1430
4	1120	2320	2030	726	663	1020	853	1080	1010	833	1860	498
5	2550	2230	1140	531	970	1030	1070	1070	835	1050	494	839
6	2510	2210	1140	529	647	907	1060	1080	832	1040	1080	2000
7	2570	1130	1020	525	629	913	1540	1080	1010	1050	835	2000
8	2470	1130	1030	529	1130	997	1050	858	1980	1050	844	2010
9	2510	2000	1070	895	1120	1010	1050	856	1020	1050	1410	2000
10	1120	1990	1030	897	1120	1000	852	1050	763	834	515	1990
11	1130	1990	1030	2400	1120	1020	860	1040	1020	831	512	501
12	2530	2000	906	1780	1100	1010	1050	1530	824	1060	505	845
13	2520	2000	907	506	956	912	1050	909	822	1040	1420	3250
14	2540	1120	1120	1080	955	924	1100	1080	1060	1050	493	1800
15	2540	1130	1120	503	1010	1020	1070	852	1050	1050	838	2300
16	2530	2010	1110	882	1000	1020	1040	849	1050	1050	2010	2000
17	1130	2000	1120	873	1000	941	858	1030	1050	836	2020	1190
18	1130	2010	1110	1100	989	931	883	1050	1060	833	1990	504
19	2360	2010	904	1110	1020	914	1050	1020	826	1160	2010	845
20	2370	2020	908	1080	912	867	1040	1020	832	1160	2030	1490
21	2370	1140	1120	1070	927	861	1060	1020	1020	1840	493	1170
22	2360	1140	1120	1080	1170	940	1030	846	1020	1160	835	2330
23	2370	4960	1100	688	1190	916	1050	848	1040	495	1760	2310
24	1110	4990	1100	883	1000	914	854	843	1020	840	2480	1490
25	1140	4940	1110	1090	998	915	531	1070	1030	840	2960	500
26	2400	1150	902	1520	1010	913	1070	1070	826	1440	1410	844
27	2400	1140	903	1090	946	482	1060	1050	825	1450	1760	2520
28	2380	1150	514	1070	977	829	1040	1050	1040	1430	511	2510
29	2380	1160	908	1080	---	1120	1050	840	1050	1410	835	2510
30	2390	2030	1120	873	---	1130	1070	833	1050	1430	1420	2520
31	1140	---	1150	873	---	1140	---	1030	---	829	1420	---
TOTAL	65740	60670	35822	29884	27059	29856	30453	30809	30035	33037	40694	49056
MEAN	2121	2022	1156	964	966	963	1015	994	1001	1066	1313	1635
MAX	3240	4990	2040	2400	1190	1210	1580	1530	1980	1840	2960	3250
MIN	1110	1120	514	503	490	482	531	833	763	495	493	498
MEAN†	439	540	1312	3486	4979	2184	2314	1407	983	954	1037	615
CFSM†	.42	.52	1.26	3.35	4.79	2.10	2.22	1.35	.95	.92	1.00	.59
IN†	.49	.58	1.45	3.86	4.99	2.42	2.48	1.56	1.05	1.06	1.15	.66

CAL YR 1981 TOTAL 513609 MEAN 1407 MAX 4990 MIN 490 MEAN† 985 CFSM† 0.95 IN† 12.86
WTR YR 1982 TOTAL 463115 MEAN 1269 MAX 4990 MIN 482 MEAN† 1667 CFSM† 1.60 IN† 21.76

† ADJUSTED FOR CHANGE IN CONTENTS IN LAKE SIDNEY LANIER.

02335000 CHATTAHOOCHEE RIVER NEAR NORCROSS, GA.

LOCATION.--Lat 33°59'50", long 84°12'07", Gwinnett-Fulton County line, Hydrologic Unit 03130001, on downstream side of right bank pier of bridge on State Highway 141, 1.5 mi (2.4 km) upstream from John Creek, 4.5 mi (7.2 km) north of Norcross, 6.5 mi (10.5 km) downstream from Suwanee Creek, 18 mi (29 km) downstream from Buford Dam, and at mile 330.8 (532.3 km).

DRAINAGE AREA.--1,170 mi² (3,030 km²), approximately.

PERIOD OF RECORD.--October 1902 to September 1946, October 1956 to current year. Monthly discharge only for some periods, published in WSP 1304. Gage-height records collected at same site 1910-33, and since 1945 are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 878.14 ft (267.657 m) National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Prior to July 13, 1955, nonrecording gage at site 500 ft (152 m) downstream at same datum. July 14, 1955, to Mar. 11, 1957, nonrecording gage at present site and datum.

REMARKS.--Records good. Flow regulated by Lake Sidney Lanier since January 1956. (See "Lakes and Reservoirs in Apalachicola River Basin," station 02334400.) Diversion and return flow above station regulated by Gwinnett County.

AVERAGE DISCHARGE.--70 years, 2,311 ft³/s (65.45 m³/s), 26.82 in/yr (681 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 55,000 ft³/s (1,560 m³/s) Jan. 8, 1946, gage height, 27.7 ft (8.443 m), from rating curve extended above 36,000 ft³/s (1,020 m³/s) on basis of computation of peak flow over Morgan Falls Dam; minimum observed, 132 ft³/s (3.74 m³/s) Aug. 25, 1925.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1896, that of Jan. 8, 1946.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,280 ft³/s (234 m³/s) Sept. 13, gage height, 9.73 ft (2.966 m); minimum daily, 669 ft³/s (18.9 m³/s) Mar. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3420	1170	2400	1910	1060	955	1210	1300	1290	1220	968	1620
2	3400	1420	2310	1250	1040	1200	1250	1050	1220	1210	1450	1880
3	2360	2470	2250	2220	5490	1060	1270	1050	1210	1080	1650	1710
4	1120	2450	2260	2700	2390	1030	1000	1320	1230	908	1980	1210
5	2140	2470	1660	1650	1030	1010	1150	1290	1100	1100	1400	703
6	2360	2380	1160	870	1150	1110	1380	1300	986	1210	893	1950
7	2680	1600	935	780	788	1170	1740	1290	1100	1200	1040	2260
8	2670	1170	1110	753	775	986	1390	1330	1660	1210	986	2280
9	2670	1650	1110	873	1240	1060	1620	1030	1790	1240	1480	2250
10	1800	2110	1140	1020	1290	1040	1340	995	1020	1110	1880	2280
11	1150	2120	1100	2500	1220	1040	1070	1230	1040	930	984	1220
12	1780	2130	1230	2200	1200	1020	1030	1320	1080	1130	758	719
13	2660	2140	958	900	1340	1100	1230	1840	989	1210	1250	2870
14	2700	1640	895	786	1020	960	1830	920	1050	1200	1140	2460
15	2700	1170	1330	1220	866	860	1740	1340	1200	1250	733	2440
16	2700	1640	1260	861	1060	1120	1380	986	1210	1300	1630	2460
17	2040	2140	1250	1020	1210	1170	1370	1180	1210	1110	2390	1610
18	1160	2140	1250	1040	1100	1300	1190	1180	1210	938	2320	1090
19	1830	2140	1360	1090	1090	1180	1130	1270	1110	1220	2330	720
20	2520	2190	979	1280	1160	1200	1450	1250	937	1330	2320	1160
21	2530	2130	898	1300	981	1020	1400	1260	1060	1540	1570	1430
22	2510	1180	1180	1310	975	871	1340	1080	1230	1820	721	2410
23	2530	3440	1250	1380	1160	1040	1290	1010	1220	986	1470	2640
24	2350	5370	1230	938	1010	1030	1280	1020	1170	771	2740	1850
25	708	5330	1480	939	1020	1040	1320	1180	1150	1050	3440	1380
26	1510	2630	1520	1640	1010	1040	1530	1280	1010	1180	1780	789
27	2590	1190	1040	1280	1180	1020	1750	1270	929	1500	1850	1870
28	2560	972	840	1240	1100	669	1480	1280	1160	1590	1420	2830
29	2560	1150	677	1230	---	976	1360	1090	1250	1560	707	2840
30	2570	1770	1160	1330	---	1220	1330	975	1250	1590	1330	2840
31	2320	---	1660	1020	---	1240	---	1120	---	1260	1600	---
TOTAL	70598	64302	40882	40530	35955	32737	40850	37036	35071	37953	48210	55771
MEAN	2277	2143	1319	1307	1284	1056	1362	1195	1169	1224	1555	1859
MAX	3420	5370	2400	2700	5490	1300	1830	1840	1790	1820	3440	2870
MIN	708	972	677	753	775	669	1000	920	929	771	707	703

CAL YR 1981 TOTAL 549736 MEAN 1506 MAX 5370 MIN 602 MEAN† 1084 CFSM† 0.93 IN† 12.58
WTR YR 1982 TOTAL 539895 MEAN 1479 MAX 5490 MIN 669 MEAN† 1877 CFSM† 1.60 IN† 21.78

† ADJUSTED FOR CHANGE IN CONTENTS IN LAKE SIDNEY LANIER.

02335450 CHATTAHOOCHEE RIVER ABOVE ROSWELL, GA.

LOCATION.--Lat 33°59'09", long 84°18'58", Fulton County, Hydrologic Unit 03130001, on right bank 3.3 mi (5.3 km) upstream from Big Creek and bridge on U.S. Highway 19, 3.6 mi (5.8 km) southeast of Roswell, and at mile 320.6 (515.8 km).

DRAINAGE AREA.--1,220 mi^2 (3,160 km^2), approximately.

PERIOD OF RECORD.--October 1941 to May 1960 (published as "near Roswell"), July 1976 to current year.

GAGE.--Water-stage recorder. Datum of gage is 858.01 ft (261.521 m) National Geodetic Vertical Datum of 1929. Prior to July 7, 1976, at site 1.8 mi (2.9 km) downstream at datum 8.51 ft (2.594 m) lower.

REMARKS.--Records good. Flow regulated by Lake Sidney Lanier since January 1956. (See "Lakes and Reservoirs in Apalachicola River Basin," station 02334400.) Diversions above station by Gwinnett and DeKalb Counties; return flows above station by Gwinnett County.

AVERAGE DISCHARGE.--24 years, 2,107 ft^3/s (59.67 m^3/s), 23.45 in/yr (596 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 56,000 ft^3/s (1.586 m^3/s) Jan. 8, 1946 (gage height, 23.4 ft site and datum then in use, from floodmark), from rating curve extended above 30,000 ft^3/s (850 m^3/s) on basis of computation of peak flow over Morgan Falls Dam 6 miles downstream; minimum daily, 315 ft^3/s (8.92 m^3/s) Aug. 11, 1957.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 10,600 ft^3/s (300 m^3/s) Feb. 3, gage height, 8.64 ft (2.633 m); minimum daily discharge, 496 ft^3/s (14.0 m^3/s) Sept. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3330	1140	2570	2330	1060	1020	1210	1360	1230	1170	979	1620
2	3320	1660	2410	1430	1250	1160	1190	1110	1130	1140	890	2020
3	2930	2430	2330	2770	7600	1120	1260	1060	1110	1150	1580	1760
4	1020	2450	2360	3620	2810	1030	993	1430	1170	892	1690	1460
5	1520	2580	1860	2030	1070	982	1240	1320	1170	936	1950	512
6	2270	2460	1190	958	1180	1100	1480	1320	921	1290	589	1300
7	2580	1900	1010	859	775	1270	1620	1340	914	1120	1170	2180
8	2610	1150	1160	691	673	1080	1570	1430	1150	1160	922	2200
9	2580	1430	1150	743	1230	1110	1750	1100	2030	1120	1020	2160
10	2460	2220	1130	999	1260	1030	1410	1060	1070	1130	2360	2110
11	1060	2170	1180	2300	1170	1030	1080	1310	824	938	1190	1630
12	1090	2220	1170	2180	1170	1040	1040	1300	1080	991	829	613
13	2610	2230	920	1160	1240	996	1240	1780	958	1150	700	1900
14	2640	1920	989	600	964	980	1730	1080	905	1160	1560	2610
15	2650	1150	1450	1220	866	938	1940	1220	1110	1200	650	2080
16	2650	1530	1290	721	1040	1160	1430	985	1140	1260	922	2370
17	2590	2240	1330	968	1210	1290	1480	1010	1130	1200	2110	1750
18	1090	2280	1250	1020	1110	1390	1270	1120	1160	1030	2030	1240
19	1150	2270	1340	1120	1060	1180	1210	1180	1120	1030	2130	496
20	2440	2340	975	1260	1050	1150	1600	1110	873	1290	2210	815
21	2460	2260	875	1290	940	997	1470	1200	878	1270	2140	1550
22	2480	1150	1240	1300	980	922	1400	1090	1250	1990	647	1600
23	2510	3080	1220	1480	1160	1040	1280	927	1200	1310	1030	2450
24	2840	5570	1200	937	1040	998	1300	973	1150	778	2350	2020
25	765	5460	1660	926	989	1040	1610	942	1160	1150	3140	1540
26	1230	3530	1630	1570	974	1040	1870	1190	1120	983	2320	569
27	2560	1180	1050	1430	1220	1030	2050	1190	1020	1480	1620	1160
28	2610	1030	874	1230	1150	624	1590	1160	1000	1500	1770	2620
29	2530	1180	577	1230	---	922	1400	1100	1280	1500	572	2680
30	2560	1780	1020	1330	---	1230	1370	888	1220	1440	921	2650
31	2550	---	2100	1060	---	1180	---	914	---	1420	1570	---
TOTAL	69685	65990	42510	42762	38241	33079	43083	36199	33473	37178	45561	51665
MEAN	2248	2200	1371	1379	1366	1067	1436	1168	1116	1199	1470	1722
MAX	3330	5570	2570	3620	7600	1390	2050	1780	2030	1990	3140	2680
MIN	765	1030	577	600	673	624	993	888	824	778	572	496

CAL YR 1981 TOTAL 553712 MEAN 1517 MAX 5570 MIN 515 MEAN† 1095 CFSM† 0.90 IN† 12.18
WTR YR 1982 TOTAL 539426 MEAN 1478 MAX 7600 MIN 496 MEAN† 1876 CFSM† 1.54 IN† 20.87

† ADJUSTED FOR CHANGE IN CONTENTS IN LAKE SIDNEY LANIER.

02335700 BIG CREEK NEAR ALPHARETTA, GA.

LOCATION.--Lat 34°03'02", long 84°16'10", Fulton County, Hydrologic Unit 03130001, on left bank at downstream side of county highway bridge, 2.6 mi (4.2 km) southeast of Alpharetta, and 9.4 mi (15.1 km) upstream from mouth.

DRAINAGE AREA.--72 mi^2 (186 km^2), approximately.

PERIOD OF RECORD.--May 1960 to current year.

GAGE.--Water-stage recorder. Datum of gage is 960.80 ft (292.852 m) National Geodetic Vertical Datum of 1929 (levels by U.S. Soil Conservation Service).

REMARKS.--Records good.

AVERAGE DISCHARGE.--22 years, 116 ft^3/s (3.285 m^3/s), 21.88 in/yr (556 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,100 ft^3/s (173 m^3/s) Feb. 3, 1982, gage height, 13.05 ft (3.978 m); minimum daily, 6.4 ft^3/s (0.18 m^3/s) Sept. 29, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 800 ft^3/s (22.7 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 4	2100	1230	34.8	9.22	2.810	Apr. 15	1400	1300	36.8	9.21	2.807
Feb. 3	2100	*6100	173	13.05	3.978	Aug. 11	0100	928	26.3	8.24	2.512

Minimum discharge, 6.8 ft^3/s (0.19 m^3/s) Oct. 2, gage height, 1.39 ft (0.424 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.0	17	111	414	105	129	65	115	127	46	87	34
2	7.3	16	75	237	170	106	62	105	123	41	64	52
3	7.7	17	45	424	4480	95	84	97	70	38	51	43
4	8.1	16	37	888	2450	89	72	92	79	35	46	36
5	7.9	15	33	805	737	83	150	87	88	70	43	32
6	7.8	15	30	200	235	86	185	83	64	500	44	30
7	8.0	14	29	136	156	267	102	80	56	200	41	29
8	8.5	13	27	128	132	198	137	171	52	110	43	29
9	15	13	26	91	158	124	299	111	49	83	110	28
10	16	13	25	75	212	105	166	87	48	76	770	28
11	14	14	25	68	138	94	111	78	47	125	737	34
12	10	14	26	64	115	88	94	73	46	190	205	40
13	8.5	14	26	61	113	84	85	69	59	83	103	36
14	8.2	14	45	58	98	80	353	65	50	60	81	54
15	8.5	14	69	56	94	91	971	63	47	54	69	38
16	9.4	14	48	54	133	120	504	61	45	63	59	33
17	11	16	42	53	220	146	197	59	45	74	61	30
18	12	15	41	52	152	301	201	63	45	75	62	30
19	17	17	34	68	120	154	156	62	42	78	52	29
20	13	29	30	89	105	112	205	63	40	60	47	28
21	13	20	27	117	96	96	161	66	38	48	44	27
22	13	16	37	111	87	93	125	61	53	43	42	26
23	15	15	42	105	80	82	107	73	55	43	40	25
24	21	22	43	113	77	78	98	92	44	93	38	26
25	17	25	142	83	74	78	234	68	41	276	38	27
26	35	19	110	70	77	76	504	65	39	99	37	30
27	29	18	69	62	138	68	589	64	54	59	36	37
28	23	46	55	60	158	65	588	90	82	53	35	32
29	20	36	52	60	---	64	207	69	66	51	34	29
30	19	48	44	58	---	65	136	60	56	251	32	27
31	18	---	220	68	---	65	---	65	---	165	33	---
TOTAL	428.9	575	1665	4928	10910	3382	6948	2457	1750	3242	3184	979
MEAN	13.8	19.2	53.7	159	390	109	232	79.3	58.3	105	103	32.6
MAX	35	48	220	888	4480	301	971	171	127	500	770	54
MIN	7.3	13	25	52	74	64	62	59	38	35	32	25
CFSM	.19	.27	.75	2.21	5.42	1.51	3.22	1.10	.81	1.46	1.43	.45
IN.	.22	.30	.86	2.55	5.64	1.75	3.59	1.27	.90	1.68	1.65	.51

CAL YR 1981 TOTAL 18284.9 MEAN 50.1 MAX 747 MIN 6.4 CFSM .70 IN 9.45
WTR YR 1982 TOTAL 40448.9 MEAN 111 MAX 4480 MIN 7.3 CFSM 1.54 IN 20.90

02336000 CHATTAHOOCHEE RIVER AT ATLANTA, GA.

LOCATION.--Lat 33°51'33", long 84°27'16", Fulton-Cobb County line, Hydrologic Unit 03130001, on left bank 20 ft (6 m) upstream from Paces Ferry Bridge, at Atlanta, 1 mi (1.6 km) downstream from Rottenwood Creek, 2.5 mi (4.0 km) upstream from Peachtree Creek, and at mile 303.0 (487.5 km).

DRAINAGE AREA.--1,450 mi² (3,760 km²), approximately.

PERIOD OF RECORD.--August 1928 to December 1931, October 1936 to current year. Monthly discharge only for some periods, published in WSP 1304. Prior to October 1951, published as "near Vinings".

REVISED RECORDS.--WSP 972: 1932.

GAGE.--Water-stage recorder. Datum of gage is 750.10 ft (228.630 m) National Geodetic Vertical Datum of 1929. Aug. 3, 1928, to Dec. 31, 1931, water-stage recorder, and Nov. 15, 1936, to Mar. 8, 1937, nonrecording gage at same site and datum. Since June 1967, auxiliary water-stage recorder at bridge on U.S. Highway 41, 0.8 mi (1.3 km) upstream.

REMARKS.--Records good. Flow regulated by Lake Sidney Lanier since January 1956. (See "Lakes and Reservoirs in Apalachicola River Basin," station 02334400.) Diversions above station by Gwinnett, DeKalb, and Cobb Counties; return flows above station by Gwinnett and Cobb Counties. Considerable diurnal fluctuation caused by Morgan Falls hydroelectric plant 9.5 mi (15.3 km) above station. Records of chemical analyses for the water years 1974-79 are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--49 years, 2,597 ft³/s (73.55 m³/s), 24.32 in/yr (618 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 59,000 ft³/s (1,670 m³/s) Jan. 9, 1946, gage height, 28.0 ft (8.53 m); minimum daily, 296 ft³/s (8.38 m³/s) Sept. 2, 1957.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1896, 29.0 ft (8.84 m) in December 1919, from floodmarks at site 2.6 mi (4.2 km) downstream and stage relation between the two sites.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 24,100 ft³/s (683 m³/s) Feb. 3, maximum gage height, 20.66 ft (6.297 m) Feb. 3, backwater from Peachtree Creek; minimum daily discharge, 1,060 ft³/s (30.0 m³/s) June 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3240	1300	3200	3510	1490	1510	1530	1610	1900	1420	1400	1810
2	3210	1530	2580	2140	2410	1380	1340	1420	1620	1310	1510	3050
3	2480	2150	2450	4310	17600	1470	1490	1460	1490	1160	1690	2850
4	1200	2660	2290	6200	8780	1260	1340	1590	1680	1140	1880	1350
5	1640	2490	1830	3430	3350	1260	2090	1600	1490	1120	1900	1170
6	2370	2390	1330	1920	2000	1230	2220	1490	1270	2150	1110	1230
7	2380	2050	1280	1360	1170	2370	1650	1590	1290	1480	1120	2040
8	2530	1230	1240	1290	1240	1720	2620	2090	1380	1380	1280	2210
9	2350	1500	1320	1270	1810	1510	2750	1350	2300	1320	1340	2240
10	2090	2160	1210	1260	1770	1380	1880	1350	1260	1310	3180	2220
11	1240	2230	1240	1790	1650	1320	1500	1430	1140	1310	2370	1560
12	1690	2060	1240	2390	1470	1320	1420	1470	1140	1550	1560	1120
13	2390	2130	1140	1620	1290	1220	1500	1980	1330	1410	1360	1380
14	2580	1970	1420	1300	1350	1220	2260	1530	1310	1370	1510	3230
15	2720	1230	1790	1300	1380	1390	2950	1150	1310	1620	1170	2150
16	2660	1470	1440	1290	1410	1570	2790	1120	1290	1740	1440	2540
17	1970	2220	1440	1290	1870	1990	2060	1130	1380	1350	2450	1670
18	1200	2150	1410	1270	1600	2160	1910	1440	1320	1380	2390	1310
19	1210	2160	1380	1280	1440	1730	1770	1390	1310	1460	2330	1100
20	2380	2540	1180	1200	1210	1330	2670	1390	1130	1490	2270	1110
21	2430	1990	1170	1270	1310	1310	1970	1730	1060	1460	1710	1220
22	2370	1440	1300	1640	1260	1440	1830	1470	1590	2370	1180	1570
23	2460	2040	1480	1770	1390	1310	1650	1490	1500	1600	1260	2700
24	2060	5070	1440	1270	1380	1320	1570	1570	1300	1220	1840	2150
25	1410	5190	2560	1370	1270	1320	[illegible]	1390	1220	1460	2840	1370
26	1810	4260	1900	1590	1140	1290	3790	1540	1180	1460	2770	1140
27	2560	1360	1350	1760	1650	1200	3320	1550	1490	1610	1820	1470
28	2450	1320	1320	1510	1600	1110	2550	1500	1610	1640	1440	2510
29	2510	1260	1320	1320	---	1130	1950	1310	1910	1710	1110	2710
30	2500	2030	1300	1360	---	1410	1670	1200	1440	1980	1130	2760
31	2090	---	2480	1390	---	1350	---	1280	---	1830	1500	---
TOTAL	68180	65580	50030	57670	67290	44530	63420	45610	42640	46810	53860	56940
MEAN	2199	2186	1614	1860	2403	1436	2114	1471	1421	1510	1737	1898
MAX	3240	5190	3200	6200	17600	2370	3790	2090	2300	2370	3180	3230
MIN	1200	1230	1140	1200	1140	1110	1340	1120	1060	1120	1110	1100

CAL YR 1981 TOTAL 621230 MEAN 1702 MAX 5850 MIN 1080 MEAN† 1280 CFSM† 0.88 IN† 11.98
WTR YR 1982 TOTAL 662560 MEAN 1815 MAX 17600 MIN 1060 MEAN† 2213 CFSM† 1.53 IN† 20.72

† ADJUSTED FOR CHANGE IN CONTENTS IN LAKE SIDNEY LANIER.

02336300 PEACHTREE CREEK AT ATLANTA, GA.

LOCATION.--Lat 33°49'10", long 84°24'28", Fulton County, Hydrologic Unit 03130001, on downstream side of bridge on Northside Drive at Atlanta, 0.4 mi (0.6 km) downstream from Tanyard Branch, and 4 mi (6.4 km) upstream from mouth.
DRAINAGE AREA.--86.8 mi^2 (225 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1958 to current year.
GAGE.--Water-stage recorder. Datum of gage is 763.96 ft (232.855 m) National Geodetic Vertical Datum of 1929, city of Atlanta bench mark. Prior to May 27, 1963, water-stage recorder at site 1,000 ft (305 m) downstream at same datum.
REMARKS.--Records fair except those of no gage-height record, Feb. 6 to Mar. 2, Mar. 28 to Apr. 2, and June 29 to July 6, which are poor.
AVERAGE DISCHARGE.--24 years, 135 ft^3/s (3.823 m^3/s), 21.12 in/yr (536 mm/yr).
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,660 ft^3/s (245 m^3/s) Mar. 16, 1976, gage height, 20.30 ft (6.187 m); minimum daily discharge, 6.0 ft^3/s (0.170 m^3/s) Oct. 3, 4, 1981.
EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,500 ft^3/s (70.8 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Dec. 31	1415	2680	75.9	10.95	3.388
Jan. 4	0445	4790	136	14.66	4.468
Feb. 3	0800	*6520	185	17.16	5.230
Apr. 25	1345	2950	83.5	11.32	3.450
June 22	0915	3540	100	12.60	3.840
July 16	0230	3060	86.7	11.73	3.575
Sept. 1	2230	2580	73.1	10.64	3.243

Minimum daily discharge, 6.0 ft^3/s (0.170 m^3/s) Oct. 3, 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.6	15	320	196	91	70	41	63	294	50	176	311
2	6.5	15	65	56	273	62	40	61	51	40	156	742
3	6.0	15	32	1160	4340	58	119	55	236	35	45	201
4	6.0	14	27	1910	333	55	53	52	263	350	40	46
5	6.2	14	25	207	215	56	1060	49	78	250	40	32
6	6.3	15	24	128	160	101	197	49	38	170	38	28
7	6.2	15	24	175	120	466	108	49	32	86	46	26
8	6.2	14	23	119	100	76	405	435	31	92	51	24
9	18	13	23	70	210	58	275	73	30	76	70	24
10	183	14	21	61	150	55	90	58	29	152	175	23
11	22	14	22	59	100	52	65	54	28	337	247	27
12	12	14	22	57	80	50	58	51	50	69	57	28
13	10	14	21	55	70	49	55	48	351	58	37	27
14	9.3	13	392	53	65	126	102	47	43	140	37	29
15	9.2	14	131	60	60	648	87	46	33	161	33	26
16	8.9	15	39	132	500	217	211	45	30	1040	30	24
17	9.1	16	26	119	250	210	372	76	35	183	125	22
18	8.9	15	22	94	120	138	128	122	30	462	59	20
19	8.7	14	21	97	90	72	124	99	27	273	78	19
20	8.8	31	22	75	75	63	538	46	26	179	31	18
21	9.0	16	23	147	65	61	111	75	26	278	29	18
22	9.2	13	35	70	60	73	70	171	1070	478	28	17
23	18	13	50	288	55	58	56	66	93	183	27	17
24	23	68	47	91	50	55	51	49	46	75	27	17
25	181	21	941	59	48	70	1210	66	37	76	53	17
26	239	15	83	52	100	110	412	54	34	126	32	351
27	33	15	45	48	344	57	415	42	492	78	41	256
28	20	27	109	46	100	47	131	40	432	140	35	39
29	17	15	80	45	---	45	90	39	100	53	26	29
30	16	463	33	44	---	43	73	37	70	94	24	26
31	15	---	1130	227	---	42	---	61	---	180	24	---
TOTAL	938.1	970	3878	6000	8224	3343	6747	2278	4135	5964	1917	2484
MEAN	30.3	32.3	125	194	294	108	225	73.5	138	192	61.8	82.8
MAX	239	463	1130	1910	4340	648	1210	435	1070	1040	247	742
MIN	6.0	13	21	44	48	42	40	37	26	35	24	17
CFSM	.35	.37	1.44	2.24	3.39	1.24	2.59	.85	1.59	2.21	.71	.95
IN.	.40	.42	1.66	2.57	3.52	1.43	2.89	.98	1.77	2.56	.82	1.06

CAL YR 1981 TOTAL 25552.1 MEAN 70.0 MAX 1530 MIN 6.0 CFSM .81 IN 10.95
WTR YR 1982 TOTAL 46878.1 MEAN 128 MAX 4340 MIN 6.0 CFSM 1.48 IN 20.09

02336300 PEACHTREE CREEK AT ATLANTA, GA.—Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.95	3.07	4.75	4.28	3.79	---	---	3.45	4.48	---	3.88	4.80
2	2.94	3.07	3.54	3.59	4.40	---	---	3.43	3.35	---	3.79	5.97
3	2.92	3.07	3.25	7.14	13.39	3.57	3.82	3.39	4.11	---	3.26	4.19
4	2.92	3.06	3.19	8.84	4.86	3.55	3.46	3.36	4.37	---	3.21	3.42
5	2.93	3.06	3.16	4.37	4.40	3.54	6.71	3.34	3.56	---	3.21	3.27
6	2.93	3.07	3.15	4.01	---	3.73	4.21	3.34	3.27	---	3.19	3.22
7	2.93	3.07	3.15	4.20	---	5.23	3.78	3.34	3.21	3.79	3.24	3.20
8	2.93	3.05	3.13	3.96	---	3.68	4.74	4.89	3.19	3.78	3.30	3.17
9	3.11	3.04	3.13	3.70	---	3.56	4.45	3.48	3.18	3.62	3.42	3.16
10	4.23	3.05	3.11	3.63	---	3.52	3.70	3.37	3.17	3.75	3.92	3.16
11	3.29	3.06	3.11	3.62	---	3.50	3.54	3.35	3.15	4.65	4.32	3.20
12	3.11	3.05	3.11	3.63	---	3.49	3.48	3.32	3.29	3.58	3.38	3.22
13	3.06	3.05	3.10	3.62	---	3.47	3.45	3.30	4.67	3.51	3.22	3.21
14	3.03	3.04	4.85	3.62	---	3.72	3.76	3.29	3.32	3.81	3.22	3.24
15	3.03	3.05	3.97	3.62	---	5.79	3.78	3.28	3.21	3.97	3.17	3.19
16	3.02	3.09	3.38	3.99	---	4.25	4.74	3.27	3.18	6.49	3.14	3.17
17	3.03	3.11	3.23	3.96	---	4.19	4.72	3.47	3.23	4.08	3.66	3.14
18	3.02	3.07	3.18	3.84	---	3.90	3.85	3.64	3.17	4.94	3.39	3.11
19	3.01	3.06	3.16	3.86	---	3.58	3.81	3.61	3.14	4.42	3.46	3.09
20	3.02	3.32	3.17	3.72	---	3.52	5.28	3.28	3.12	4.05	3.15	3.08
21	3.02	3.10	3.20	4.10	---	3.50	3.76	3.47	3.13	4.35	3.13	3.07
22	3.03	3.04	3.34	3.69	---	3.59	3.53	3.82	6.66	4.92	3.11	3.05
23	3.21	3.04	3.46	4.62	---	3.48	3.42	3.43	3.94	3.96	3.10	3.04
24	3.22	3.60	3.39	3.81	---	3.46	3.38	3.31	3.62	3.47	3.10	3.04
25	4.16	3.19	6.61	3.61	---	3.54	6.84	3.39	3.54	3.47	3.28	3.05
26	4.40	3.09	3.76	3.55	---	3.76	4.91	3.34	3.50	3.60	3.16	4.23
27	3.36	3.08	3.50	3.52	---	3.46	4.95	3.24	5.29	3.50	3.22	4.36
28	3.18	3.26	3.81	3.50	---	---	3.82	3.22	5.23	3.70	3.20	3.36
29	3.12	3.08	3.72	3.49	---	---	3.62	3.21	---	3.33	3.08	3.24
30	3.09	4.98	3.38	3.48	---	---	3.52	3.19	---	3.49	3.05	3.20
31	3.07	---	6.95	4.30	---	---	---	3.39	---	3.89	3.06	---
MEAN	3.17	3.17	3.64	4.09	---	---	---	3.43	---	---	3.32	3.43
MAX	4.40	4.98	6.95	8.84	---	---	---	4.89	---	---	4.32	5.97
MIN	2.92	3.04	3.10	3.48	---	---	---	3.19	---	---	3.05	3.04

02336300 PEACHTREE CREEK AT ATLANTA, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1969 to May 1972, July 1975 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, Dissolved Oxygen, and Specific Conductance by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	TEMPER-ATURE, AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT										
05...	0845	6.2	206	199	7.4	7.2	14.0	17.5	8.0	79
NOV										
03...	0800	14	170	174	7.2	7.2	14.0	14.5	6.1	60
DEC										
08...	0715	23	--	142	7.2	7.3	7.0	7.5	9.6	81
JAN										
05...	1015	199	99	104	6.7	7.1	6.5	6.0	10.1	82
FEB										
02...	1250	145	--	110	6.9	7.1	7.0	5.5	11.1	92
MAR										
11...	1500	52	--	--	7.1	--	15.0	20.5	9.5	--
APR										
07...	1340	85	--	129	7.3	7.1	14.0	17.0	10.5	103
MAY										
05...	0620	49	150	151	7.2	7.4	17.0	16.0	8.6	91
JUN										
08...	0600	31	--	145	--	7.4	20.0	17.0	7.7	86
29...	1000	193	--	55	7.1	7.3	23.0	23.5	9.5	113
AUG										
10...	1015	195	--	81	7.2	7.2	24.0	27.0	8.8	106
SEP										
09...	0615	24	--	166	7.3	7.4	20.0	18.5	6.3	71

DATE	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT								
05...	8	1.0	9300	60	.22	.120	.060	3.0
NOV								
03...	4	2.4	4300	58	.10	.600	.120	3.5
DEC								
08...	23	1.4	1500	48	.38	.240	.120	2.2
JAN								
05...	60	1.7	2300	23	.78	.300	.220	6.0
FEB								
02...	39	4.8	79000	27	.62	.150	.190	15
APR								
07...	11	.9	11000	38	.53	.100	.060	2.0
MAY								
05...	8	.7	1500	45	.64	.080	.020	1.0
JUN								
08...	11	.5	13000	47	.48	.060	.040	3.5
29...	165	2.6	--	18	.24	.070	.280	9.0
AUG								
10...	144	4.0	49000	22	.42	.190	.280	--
SEP								
09...	8	.6	4900	52	.44	.240	.040	2.0

02336490 CHATTAHOOCHEE RIVER AT STATE HIGHWAY 280, NEAR ATLANTA, GA.

LOCATION.--Lat 33°49'01", long 84°28'48", Fulton-Cobb County line, Hydrologic Unit 03130002, at bridge on State Highway 280, 0.6 mi (1.0 km) upstream from Southern Railway bridge, 1.7 mi (2.7 km) downstream from Peachtree Creek, and at mile 298.8 (480.8 km).

DRAINAGE AREA.--1,600 mi^2 (4,140 km^2), approximately.

PERIOD OF RECORD.--March 1981 to current year.

GAGE.--Water-stage recorder. Datum of gage is 736.35 ft (224.439 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Flow regulated by Lake Sidney Lanier. (See "Lakes and Reservoirs in Apalachicola River Basin," station 02334400.) Diversions and return flows above station regulated by Gwinnett, DeKalb, and Cobb Counties, and by the city of Atlanta. Considerable diurnal fluctuation caused by Morgan Falls hydroelectric plant.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,300 ft^3/s (801 m^3/s) Feb. 3, 1982, gage height, 28.91 ft (8.812 m); minimum daily discharge, 1,060 ft^3/s (30.0 m^3/s) June 21, 1982.

EXTREMES OUTSIDE PERIOD OF RECORD: Flood of April 13, 1979, reached a stage of 30.71 ft (9.360 m) from floodmarks, discharge, 32,000 ft^3/s (906 m^3/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 28,300 ft^3/s (801 m^3/s) Feb. 3, gage height, 28.91 ft (8.812 m); minimum daily discharge, 1,060 ft^3/s (30.0 m^3/s) June 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3400	1350	4000	4170	1850	1730	1650	1770	2230	1540	1730	2040
2	3290	1480	2830	2400	2120	1600	1470	1550	1670	1430	1750	4030
3	2790	2270	2660	6270	23100	1690	1720	1550	1760	1250	1830	3660
4	1270	2690	2390	9250	16500	1490	1480	1680	2170	1190	1990	1540
5	1520	2570	2100	4070	6310	1420	3750	1690	1700	1340	2080	1170
6	2490	2410	1390	2240	2580	1440	2700	1600	1330	3230	1210	1220
7	2490	2240	1310	1610	1490	3430	1850	1620	1270	1690	1180	1940
8	2600	1280	1280	1490	1410	2090	3100	2680	1350	1570	1370	2170
9	2700	1370	1360	1390	2170	1710	3610	1550	2300	1470	1460	2200
10	2700	2170	1240	1370	2210	1600	2190	1410	1370	1460	3520	2220
11	1420	2270	1250	1750	1870	1510	1680	1480	1120	1880	3200	1650
12	1590	2130	1300	2460	1700	1480	1520	1490	1140	1730	1880	1110
13	2490	2150	1150	1890	1680	1430	1630	2000	1940	1540	1400	1320
14	2710	2160	2010	1400	1550	1360	2420	1690	1300	1630	1760	3180
15	2560	1340	2080	1380	1600	2360	3200	1180	1340	1930	1270	2170
16	2790	1270	1560	1480	2060	2030	3210	1150	1300	3390	1440	2500
17	2230	2250	1490	1460	2610	2310	2700	1240	1410	1650	2640	1730
18	1300	2200	1480	1360	1960	2650	2340	1480	1340	2060	2570	1270
19	1560	2190	1490	1460	1690	1990	1970	1530	1330	1980	2560	1070
20	2490	2620	1270	1370	1530	1610	3660	1430	1170	1650	2360	1070
21	2490	2200	1250	1510	1510	1460	2290	1810	1060	1660	2010	1130
22	2440	1530	1340	1780	1430	1580	2020	1650	2900	3000	1270	1450
23	2570	1760	1600	2290	1580	1460	1800	1650	1740	2110	1280	2650
24	2320	5230	1520	1550	1600	1510	1730	1670	1480	1350	1770	2190
25	1720	5410	4190	1490	1490	1460	4990	1460	1290	1740	2990	1370
26	2150	4740	2160	1700	1390	1530	5100	1620	1310	1600	3050	1310
27	2700	1490	1460	1930	2410	1370	4140	1590	2030	1800	1800	1830
28	2560	1440	1490	1620	1990	1240	2810	1510	2070	1870	1710	2450
29	2620	1270	1510	1470	---	1250	2200	1370	2720	1800	1200	2690
30	2590	2520	1390	1500	---	1470	1830	1230	1580	2110	1170	2730
31	2320	---	4270	1790	---	1480	---	1270	---	2230	1430	---
TOTAL	72870	68000	57820	68900	91390	52740	76760	48600	48720	56880	58880	59060
MEAN	2351	2267	1865	2223	3264	1701	2559	1568	1624	1835	1899	1969
MAX	3400	5410	4270	9250	23100	3430	5100	2680	2900	3390	3520	4030
MIN	1270	1270	1150	1360	1390	1240	1470	1150	1060	1190	1170	1070

WTR YR 1982 TOTAL 760620 MEAN 2084 MAX 23100 MIN 1060 MEAN† 2482 CFSM† 1.55 IN† 21.06

† ADJUSTED FOR CHANGE IN CONTENTS IN LAKE SIDNEY LANIER.

02336502 CHATTAHOOCHEE RIVER AT I-285, AT ATLANTA, GA.

LOCATION.--Lat 33°48'32", long 84°29'43", Cobb-Fulton County line, Hydrologic Unit 03130002, at bridge on Interstate Highway 285, 0.3 mi (0.5 km) upstream from Proctor Creek, 0.5 mi (0.8 km) downstream from Southern Railway bridge, at Atlanta city limits, and at mile 297.7 (479.0 km).

DRAINAGE AREA.--1,600 mi^2 (4,140 km^2).

PERIOD OF RECORD.--July 1975 to current year.

REMARKS.--Flow regulated by Lake Sidney Lanier since January 1956. (See "Lakes and Reservoirs in Apalachicola River Basin," station 02334400.) Diversions above station by Gwinnett, DeKalb, and Cobb Counties; return flows above station by Gwinnett and Cobb Counties. Considerable diurnal fluctuation caused by Morgan Falls hydroelectric plant. Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, Dissolved Oxygen, and Specific Conductance by U.S. Geological Survey. Discharge obtained from gaging station 02336490, Chattahoochee River at State Highway 280, near Atlanta, Ga.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE (DEG C)	TEMPERATURE, AIR (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT										
05...	1015	1120	--	68	7.0	6.8	19.5	23.0	9.0	100
NOV										
03...	1000	2350	59	58	7.1	7.1	16.5	21.0	9.1	94
DEC										
08...	0915	1300	--	87	7.2	7.0	14.0	14.5	9.7	96
JAN										
05...	1145	3810	56	58	6.9	6.7	7.0	8.0	10.3	85
FEB										
02...	1215	1400	--	97	--	7.3	11.0	4.5	9.9	91
MAR										
11...	1415	1350	--	--	6.9	--	12.5	21.5	10.5	100
APR										
07...	1230	1320	--	99	7.1	7.0	12.5	10.5	10.6	101
MAY										
05...	0745	1340	88	85	7.0	7.3	17.5	21.0	9.1	97
JUN										
09...	1245	1930	--	83	--	7.1	24.0	35.0	8.4	101
29...	1115	1900	--	65	7.1	7.1	23.5	24.0	8.5	102
AUG										
10...	1100	4000	--	64	7.0	7.3	21.0	27.5	8.8	100
SEP										
08...	0815	1660	71	72	7.0	7.1	17.5	20.0	8.7	93

DATE	TURBIDITY (JTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	ALKALINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT										
05...	5	1.0	<30	15	2	36	.94	.800	.530	2.0
NOV										
03...	6	1.9	230	17	7	52	.31	.450	.260	2.0
DEC										
08...	7	.9	<30	22	<1	60	.26	1.28	1.09	2.3
JAN										
05...	80	1.5	200	11	48	144	.34	.390	.220	4.0
FEB										
02...	20	2.4	14000	24	23	100	.37	1.40	.570	7.0
APR										
07...	17	1.2	130	23	6	84	.61	1.16	.340	6.0
MAY										
05...	7	2.6	50	22	21	84	.54	1.02	.300	2.0
JUN										
09...	16	2.6	790	22	26	84	.62	1.07	.400	3.0
29...	112	3.7	--	15	210	288	.34	.490	.380	4.5
AUG										
10...	114	3.5	33000	16	282	344	.42	.340	.340	--
SEP										
08...	17	1.8	460	18	27	80	.52	.680	.320	2.5

02337000 SWEETWATER CREEK NEAR AUSTELL, GA.

LOCATION.--Lat 33°46'22", long 84°36'53", Douglas County, Hydrologic Unit 03130002, on right bank 100 ft (30 m) upstream from bridge on Interstate Highway 20, 400 ft (122 m) upstream from Blair Bridge, 3 mi (4.8 km) southeast of Austell, and 5.5 mi (8.8 km) upstream from mouth.

DRAINAGE AREA.--246 mi^2 (637 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1904 to December 1905, November to December 1913, March 1937 to current year. Monthly discharge only for some periods, published in WSP 1304.

REVISED RECORDS.--WSP 1724: 1949(M). WDR GA-79-1: 1975(M).

GAGE.--Water-stage recorder. Datum of gage is 857.01 ft (261.217 m) National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). May 6, 1904, to Dec. 31, 1905, and Nov. 3 to Dec. 27, 1913, nonrecording gage at site 2.5 mi (4.0 km) upstream at different datum. Mar. 24 to Nov. 29, 1937, nonrecording gage at present site and datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--46 years (1904-5, 1937-82), 334 ft^3/s (9.459 m^3/s), 18.44 in/yr (468 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,700 ft^3/s (303 m^3/s) Feb 4, 1982, gage height, 19.90 ft (6.066 m), minimum daily, 2.1 ft^3/s (0.059 m^3/s) Oct. 9, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 8, 1916 reached a stage of about 20.0 ft (6.10 m), from information by local resident; discharge, 12,600 ft^3/s (357 m^3/s), from rating extended above 6,500 ft^3/s (184 m^3/s) on basis of contracted-opening measurement at gage height, 18.2 ft (5.55 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,800 ft^3/s (51.0 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 5	0100	2480	70.2	7.82	2.384	Apr. 27	1500	2400	68.0	7.58	2.310
Feb. 4	0700	*10700	303	19.90	6.066						

Minimum discharge, 14 ft^3/s (0.40 m^3/s) Oct. 3-5, 8, 9, gage height, 0.42 ft (0.128 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	58	305	1460	378	492	268	445	266	338	371	223
2	17	56	346	1070	653	413	260	389	236	203	350	228
3	16	55	279	1290	5570	365	265	342	233	162	251	450
4	14	60	192	2330	10100	336	264	308	329	136	202	215
5	15	60	143	2330	7080	319	707	287	458	123	168	163
6	16	58	119	1620	3610	317	964	271	373	115	152	135
7	16	57	107	615	895	822	897	261	263	109	147	114
8	15	56	101	452	521	772	635	490	211	106	277	97
9	15	56	95	386	530	614	883	417	185	102	305	86
10	43	55	88	313	603	489	592	323	168	100	845	80
11	57	54	85	270	522	428	468	271	149	149	584	82
12	66	53	84	250	442	377	379	244	137	295	561	92
13	56	52	82	241	422	348	339	225	242	284	377	122
14	43	52	139	247	384	344	365	207	253	223	451	183
15	37	51	219	249	359	459	431	194	216	184	443	132
16	35	52	219	252	447	557	406	187	169	200	335	110
17	35	54	183	249	847	536	468	200	156	223	444	94
18	35	54	153	250	741	536	635	271	151	272	733	83
19	34	56	126	260	571	430	569	254	137	332	567	78
20	33	105	108	327	473	377	846	230	125	293	342	74
21	31	95	108	351	414	348	878	252	114	214	256	69
22	34	83	120	365	360	360	780	263	175	328	214	64
23	36	75	142	429	327	339	540	265	192	482	189	60
24	44	77	176	528	308	315	439	632	166	197	169	58
25	50	77	559	473	296	303	921	429	158	215	153	58
26	81	69	570	358	291	307	2170	493	152	232	162	62
27	104	67	472	286	456	284	2320	342	159	211	151	65
28	107	74	297	255	543	268	1790	282	239	162	141	65
29	93	73	237	243	---	261	793	261	595	189	132	63
30	74	127	205	233	---	261	534	232	350	346	122	60
31	64	---	647	263	---	264	---	207	---	280	118	---
TOTAL	1334	1971	6706	18245	38143	12641	21806	9474	6757	6805	9712	3465
MEAN	43.0	65.7	216	589	1362	408	727	306	225	220	313	116
MAX	107	127	647	2330	10100	822	2320	632	595	482	845	450
MIN	14	51	82	233	291	261	260	187	114	100	118	58
CFSM	.18	.27	.88	2.39	5.54	1.66	2.96	1.24	.92	.89	1.27	.47
IN.	.20	.30	1.01	2.76	5.77	1.91	3.30	1.43	1.02	1.03	1.47	.52

CAL YR 1981 TOTAL 76501 MEAN 210 MAX 3750 MIN 14 CFSM .85 IN 11.57
WTR YR 1982 TOTAL 137059 MEAN 376 MAX 10100 MIN 14 CFSM 1.53 IN 20.73

02337000 SWEETWATER CREEK NEAR AUSTELL, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1968 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, Dissolved Oxygen, and Specific Conductance by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	TEMPER-ATURE, AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT										
05...	1100	16	118	112	7.2	6.8	14.5	26.5	7.7	77
NOV										
03...	1045	55	115	114	7.1	7.1	15.0	22.0	7.2	73
DEC										
08...	1045	100	72	76	7.2	6.9	7.0	15.5	10.0	84
JAN										
05...	1230	2320	33	38	6.7	6.4	7.0	10.0	9.2	77
FEB										
02...	1125	346	--	60	6.9	7.0	7.0	4.0	11.3	94
MAR										
11...	1330	424	--	60	--	6.9	11.5	20.5	9.9	--
APR										
07...	1150	943	--	50	6.8	6.5	11.5	10.0	9.1	85
MAY										
05...	0930	289	62	62	7.1	7.1	17.0	27.0	8.4	89
JUN										
08...	1700	207	69	66	--	7.1	22.5	34.0	7.6	90
29...	1300	693	--	56	7.2	7.2	23.0	25.0	7.8	93
AUG										
10...	1200	958	51	54	7.1	6.8	16.5	27.5	7.6	79
SEP										
09...	0830	87	90	87	7.2	7.3	20.0	22.5	6.3	71

DATE	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT								
05...	11	1.7	430	32	.08	.020	.030	4.0
NOV								
03...	7	4.2	150	29	.03	.100	.080	8.5
DEC								
08...	11	1.2	750	22	.26	.060	--	4.0
JAN								
05...	56	1.8	15000	8.0	.16	.040	.100	11
FEB								
02...	15	.5	130	16	.23	.040	.060	3.0
MAR								
11...	16	.8	230	17	.20	.050	.100	2.0
APR								
07...	30	1.6	4900	13	.16	.070	.080	7.0
MAY								
05...	10	.9	330	20	.26	.040	.040	1.0
JUN								
08...	15	.5	790	25	.29	.060	.040	3.0
29...	96	3.6	--	16	.20	.140	.220	9.0
AUG								
10...	59	4.2	33000	15	.17	.050	.220	--
SEP								
09...	10	.8	490	30	.24	.020	.030	1.5

02337000 SWEETWATER CREEK NEAR AUSTELL, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)
OCT					
20...	1010	33	11.0	10	.89
FEB					
04...	1215	10500	6.5	109	3090
24...	0830	311	10.0	17	14
APR					
07...	0915	943	11.0	54	137
MAY					
19...	1315	254	21.0	22	15
JUN					
22...	0655	130	23.0	123	43
AUG					
19...	1010	924	23.5	306	763
SEP					
21...	0900	71	20.5	20	3.8

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.

LOCATION.--Lat 33°39'24", long 84°40'25", Fulton-Douglas County line, Hydrologic Unit 03130002, at downstream end of pier of bridge on State Highways 74 and 92, 1.4 mi (2.3 km) downstream from Deep Creek, 8.5 mi (13.7 km) northwest of Fairburn, and at mile 281.8 (453.4 km).

DRAINAGE AREA.--2,060 mi^2 (5,340 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 719.07 ft (219.173 m) National Geodetic Vertical Datum of 1929 (levels by Georgia Department of Transportation).

REMARKS.--Records good. Flow regulated by Lake Sidney Lanier. (See "Lakes and Reservoirs in Apalachicola River Basin," station 02334400.) Diversions and return flows above station regulated by Gwinnett, DeKalb, and Cobb Counties, and by the city of Atlanta. Considerable diurnal fluctuation caused by Morgan Falls hydroelectric plant.

AVERAGE DISCHARGE.--17 years, 3,750 ft^3/s (106.2 m^3/s), 24.72 in/yr (628 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 37,500 ft^3/s (1,060 m^3/s) Apr. 14, 1979, gage height, 25.18 ft (7.675 m); minimum daily, 1,000 ft^3/s (28.3 m^3/s) July 1, 1970.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 32,300 ft^3/s (915 m^3/s) Feb. 4, gage height, 23.44 ft (7.145 m); minimum daily, 1,180 ft^3/s (33.4 m^3/s) Nov. 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3350	1710	4800	7570	2710	2600	2010	2600	2300	2140	2630	2010
2	3320	1390	3660	4300	2380	2360	2030	2280	2280	1790	2100	3820
3	3250	2230	2930	6980	23600	2350	2070	2130	2230	1570	2060	5750
4	1630	2420	2740	13400	30300	2190	1960	2130	3060	1400	2130	2340
5	1190	2830	2510	8750	19100	1970	4780	2160	2970	1540	2350	1540
6	2240	2520	1590	5260	8610	1960	5130	2130	2010	3100	1590	1410
7	2430	2520	1440	2810	3830	5030	3210	1990	1670	2030	1360	1640
8	2540	1610	1470	2400	2440	3870	3450	3460	1700	1900	1540	2410
9	2660	1240	1370	2000	2700	2720	5610	2610	2240	1710	1940	2410
10	3360	1980	1450	1880	3680	2490	3370	1930	2000	1640	3690	2400
11	2030	2280	1310	1720	2910	2190	2570	1900	1390	2250	4250	2370
12	1340	2250	1430	2690	2600	2080	2080	1880	1370	1980	2970	1450
13	2270	2170	1250	2760	2640	2060	2120	2190	2510	1940	1700	1370
14	2690	2240	1870	1870	2200	1910	2450	2300	1710	1820	2120	3170
15	2660	1650	2440	1770	2210	4090	4030	1540	1730	2100	1780	2540
16	2710	1180	2130	1890	2570	4310	3910	1500	1600	4030	1580	2590
17	2640	2020	1750	2050	4670	3030	3420	1580	1630	2030	2780	2440
18	1630	2330	1660	1750	3450	4030	3940	1850	1610	2670	3780	1640
19	1260	2230	1630	1850	2780	2950	2680	2020	1560	2780	3900	1340
20	2210	2550	1460	1970	2500	2460	5520	1920	1420	2080	2860	1260
21	2500	2520	1360	2030	2140	2080	4380	2170	1240	1850	2670	1260
22	2470	1820	1440	2240	2040	2150	3280	2300	2980	3170	1660	1390
23	2560	1390	1730	2790	2190	2060	2780	2530	2690	3800	1470	1630
24	2640	4910	1790	2990	2150	2070	2310	2500	1800	1870	1610	1650
25	2050	5660	5090	2110	2050	1950	5530	2110	1530	2260	2860	1560
26	2060	5370	3670	2060	1910	2100	10300	2290	1600	1780	3490	1370
27	2620	2070	2260	2440	3050	1900	7880	2070	1850	2180	1900	1990
28	2760	1520	1910	2010	3280	1700	5850	1970	2820	2060	2170	2220
29	2710	1370	2050	2030	---	1700	4180	1870	3960	2020	1490	2780
30	2680	2030	1710	1850	---	1720	2740	1630	2370	2250	1310	2890
31	2660	---	4570	1980	---	1990	---	1540	---	2650	1360	---
TOTAL	75120	70010	68470	100200	146690	78070	115570	65080	61830	68390	71100	64640
MEAN	2423	2334	2209	3232	5239	2518	3852	2099	2061	2206	2294	2155
MAX	3360	5660	5090	13400	30300	5030	10300	3460	3960	4030	4250	5750
MIN	1190	1180	1250	1720	1910	1700	1960	1500	1240	1400	1310	1260

CAL YR 1981 TOTAL 815020 MEAN 2233 MAX 14000 MIN 1180 MEAN† 1811 CFSM† 0.88 IN† 11.93

WTR YR 1982 TOTAL 985170 MEAN 2699 MAX 30300 MIN 1180 MEAN† 3097 CFSM† 1.50 IN† 20.41

† ADJUSTED FOR CHANGE IN CONTENTS IN LAKE SIDNEY LANIER.

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.—February 1968 to May 1972, March 1974 to current year.

PERIOD OF DAILY RECORD.—
SPECIFIC CONDUCTANCE: July 1976 to current year.
pH: July 1976 to current year.
WATER TEMPERATURES: October 1975 to current year.
DISSOLVED OXYGEN: July 1976 to current year.

REMARKS.—Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, Dissolved Oxygen, and Specific Conductance by the U.S. Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.—
SPECIFIC CONDUCTANCE: Maximum, 192 micromhos Feb. 20, 1979; minimum, 33 micromhos July 7, 1976.
pH: Maximum recorded, 7.5 units Nov. 20-23, 1980; minimum, 5.5 units Aug. 12, Sept. 13, 1978.
WATER TEMPERATURE: Maximum, 32.0°C June 24, 1981; minimum, 2.5°C Jan. 12, 1982.
DISSOLVED OXYGEN: Maximum, 13.1 mg/L Mar. 24, 1977; minimum, 1.6 mg/L July 26, 1977.

EXTREMES FOR CURRENT YEAR.—
SPECIFIC CONDUCTANCE: Maximum recorded, 175 micromhos Jan. 17; minimum recorded, 47 micromhos Nov. 25.
pH: Maximum recorded, 7.2 units Sept. 25; minimum recorded, 6.2 units Sept. 30.
WATER TEMPERATURE: Maximum, 28.0°C July 5; minimum, 2.5°C Jan. 12.
DISSOLVED OXYGEN: Maximum, 12.8 mg/L Jan. 12; minimum, 2.7 mg/L July 6.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE (DEG C)	TEMPERATURE, AIR (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT 20...	0900	2700	74	71	6.9	7.1	17.0	5.0	7.5	79
NOV 30...	1015	1700	97	104	6.8	6.7	14.5	7.5	8.2	83
DEC 16...	1520	1840	91	95	6.7	7.2	9.0	12.5	10.0	88
JAN 20...	1330	1940	136	125	6.8	6.8	8.0	18.0	11.0	95
FEB 18...	1010	3660	87	81	6.6	6.8	12.0	10.5	9.1	87
MAR 18...	1030	4320	80	77	6.8	6.8	13.5	20.0	8.5	--
APR 21...	1030	4400	72	72	6.6	6.8	15.0	16.0	8.5	86
MAY 13...	0940	2370	106	101	6.8	7.1	22.0	20.5	5.9	69
JUN 09...	0945	2570	117	108	6.6	7.0	26.0	26.0	4.6	58
JUL 21...	0900	2070	103	101	--	7.2	26.5	27.0	5.0	64
AUG 18...	0930	3840	69	66	6.8	7.0	20.0	23.0	7.2	81
SEP 16...	1030	2640	76	66	6.8	6.9	21.0	26.0	6.6	76

DATE	TURBIDITY (JTU)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	ALKALINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 20...	13	7	3.4	90	18	26	80	.92	.860	1.10	.470	3.0
NOV 30...	10	11	3.8	<30	19	19	84	1.2	.720	1.10	.700	2.8
DEC 16...	18	14	.3	230	21	26	96	.74	.750	1.40	.320	2.0
JAN 20...	18	14	3.6	490	25	17	100	.70	.220	1.52	.460	10
FEB 18...	35	15	2.6	2300	19	46	124	.65	.700	.90	.280	8.0
MAR 18...	64	16	3.8	7900	18	165	236	.45	.620	.90	.310	4.0
APR 21...	32	13	2.3	4900	17	33	104	.53	.390	.90	.280	4.0
MAY 13...	11	17	2.9	--	22	35	96	.99	.950	1.03	.460	7.0
JUN 09...	24	19	6.4	22000	25	51	144	1.3	1.17	1.30	.560	4.0
JUL 21...	24	0	3.6	23000	23	--	152	1.1	.700	1.20	.460	1.5
AUG 18...	65	16	2.7	17000	17	95	168	.72	.340	.90	.320	3.0
SEP 16...	25	12	2.8	28000	16	38	88	.86	.540	.90	.300	4.0

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	76	57	100	82	99	71	---	---	128	93	97	79
2	76	57	107	93	82	69	---	---	120	88	109	89
3	66	55	---	---	89	73	---	---	---	---	122	90
4	94	65	89	74	95	67	---	---	---	---	122	95
5	146	91	81	73	94	68	---	---	---	---	123	104
6	103	70	---	---	97	91	---	---	---	---	123	107
7	94	65	---	---	101	91	---	---	---	---	115	71
8	79	58	---	---	119	98	116	97	101	98	82	73
9	76	60	---	---	121	111	110	98	114	99	106	83
10	90	64	---	---	121	106	107	90	115	87	111	94
11	88	72	---	---	132	115	104	92	101	82	125	106
12	104	90	---	---	127	103	105	65	113	91	128	111
13	106	70	---	---	125	113	93	60	122	94	130	109
14	79	61	---	---	117	102	135	91	115	90	126	110
15	79	61	---	---	104	90	119	110	101	91	109	63
16	---	---	---	---	103	85	174	110	115	88	94	76
17	---	---	---	---	110	95	175	119	106	76	108	91
18	---	---	---	---	116	97	118	107	95	84	118	80
19	---	---	---	---	116	93	132	108	103	84	110	91
20	89	66	87	75	108	96	136	123	115	85	126	104
21	88	61	99	72	103	93	133	124	112	101	129	111
22	84	66	94	88	125	92	135	111	107	94	110	101
23	85	64	107	86	119	100	124	100	111	92	117	100
24	88	73	98	51	125	95	110	88	125	90	122	91
25	95	78	64	47	106	61	106	93	120	95	115	105
26	101	79	60	49	71	63	113	102	117	103	117	103
27	88	70	87	58	89	72	117	99	125	100	109	96
28	89	70	98	88	95	86	113	89	99	79	120	102
29	90	72	107	97	110	88	116	100	---	---	105	96
30	92	71	108	86	105	90	126	107	---	---	116	95
31	93	67	---	---	107	64	128	106	---	---	115	91
MONTH	146	55	108	47	132	61	175	60	128	76	130	63

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	122	102	109	87	118	97	108	95	96	78	133	94
2	130	103	105	88	107	90	123	102	93	79	122	73
3	132	110	108	91	119	94	137	118	107	87	86	58
4	119	97	115	97	118	82	141	113	106	88	104	78
5	105	71	120	96	102	82	123	68	104	73	107	102
6	80	73	124	93	105	93	119	68	134	91	106	100
7	91	80	120	97	105	94	109	69	135	126	---	---
8	99	78	115	83	114	104	120	102	134	111	93	68
9	107	65	91	70	120	80	121	104	119	95	106	67
10	92	68	99	90	106	89	130	106	115	71	99	67
11	86	80	113	98	135	107	123	90	85	71	99	68
12	100	83	118	99	133	118	96	90	99	82	116	96
13	112	96	118	94	117	83	113	95	134	93	115	106
14	119	96	99	87	101	84	119	102	138	99	124	61
15	112	74	124	95	117	100	128	97	118	108	104	71
16	110	84	124	115	122	104	122	69	115	107	103	75
17	116	77	131	111	129	105	101	82	119	91	104	65
18	107	75	121	110	117	103	100	73	93	67	123	93
19	100	84	122	102	131	109	95	77	87	66	120	102
20	108	68	118	104	122	103	108	87	95	68	120	110
21	85	68	124	92	115	105	122	97	92	66	144	116
22	95	82	121	94	128	75	125	71	103	83	137	114
23	105	85	132	89	100	73	98	74	107	95	125	66
24	118	90	105	77	114	94	117	90	118	104	79	67
25	114	57	107	89	125	107	---	---	126	70	109	76
26	64	54	114	99	130	110	---	---	96	63	116	94
27	72	63	120	96	124	90	---	---	111	67	117	89
28	82	63	127	96	91	67	100	88	119	76	106	79
29	86	73	133	99	90	81	113	88	119	99	86	62
30	103	84	133	108	99	95	115	79	115	107	80	61
31	---	---	116	108	---	---	111	79	128	113	---	---
MONTH	132	54	133	70	135	67	141	68	138	63	144	58
YEAR	175	47										

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	7.0	7.0	6.8	6.7	6.9	6.8	---	---	6.9	6.8		
2	7.1	7.0	6.7	6.6	6.8	6.7	---	---	6.9	6.8		
3	7.0	7.0	---	---	6.8	6.7	---	---	6.8	6.6		
4	7.0	7.0	6.9	6.7	6.7	6.7	---	---	---	---		
5	6.9	6.8	6.8	6.8	---	---	---	---	---	---		
6	6.8	6.7	---	---	7.0	6.9	---	---	---	---		
7	6.9	6.7	---	---	7.0	6.9	---	---	---	---		
8	6.9	6.8	---	---	7.1	7.0	6.7	6.6	6.5	6.4		
9	6.9	6.8	---	---	7.0	6.8	6.6	6.6	6.5	6.4		
10	6.9	6.6	---	---	7.0	6.8	6.8	6.6	6.5	6.4		
11	6.8	6.6	---	---	7.0	7.0	7.0	6.7	6.5	6.4		
12	6.7	6.6	---	---	7.1	7.0	7.0	6.7	6.6	6.5		
13	6.8	6.6	---	---	7.1	7.0	6.8	6.7	6.5	6.5		
14	6.9	6.8	---	---	7.0	6.9	6.8	6.7	6.6	6.5		
15	6.9	6.8	---	---	7.0	6.8	6.8	6.7	6.6	6.5		
16	---	---	---	---	7.0	6.8	6.8	6.7	6.6	6.4		
17	---	---	---	---	7.0	7.0	6.8	6.7	6.5	6.4		
18	---	---	---	---	7.1	6.9	6.8	6.7	6.7	6.4		
19	---	---	---	---	7.1	7.0	6.7	6.7	6.7	6.5		
20	7.0	6.9	6.9	6.9	7.1	7.1	6.8	6.7	6.8	6.5		
21	7.0	6.9	6.8	6.8	7.1	7.1	6.8	6.7	6.9	6.5		
22	6.9	6.8	7.0	6.8	7.1	7.0	6.8	6.7	6.9	6.6		
23	6.9	6.8	7.0	6.8	7.1	6.9	6.9	6.7	---	---		
24	6.9	6.8	7.0	6.6	7.1	7.0	6.8	6.8	---	---		
25	6.9	6.8	6.7	6.7	7.1	6.9	6.9	6.8	---	---		
26	6.8	6.6	6.8	6.7	7.0	6.9	7.0	6.9	---	---		
27	6.8	6.6	6.8	6.7	7.0	7.0	7.1	6.9	---	---		
28	6.8	6.6	6.7	6.7	7.0	6.9	6.9	6.9	---	---		
29	6.8	6.7	6.7	6.7	6.9	6.9	6.9	6.9	---	---		
30	6.8	6.7	6.8	6.6	6.9	6.9	7.0	6.9	---	---		
31	6.8	6.7	---	---	7.0	6.9	6.9	6.9	---	---		
MONTH	7.1	6.6	7.0	6.6	7.1	6.7	7.1	6.6	6.9	6.4		

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1											---	---
2											---	---
3											---	---
4											---	---
5											---	---
6											---	---
7											---	---
8											---	---
9											---	---
10											---	---
11											---	---
12											---	---
13											---	---
14											---	---
15											---	---
16											6.9	6.6
17											6.9	6.6
18											6.8	6.6
19											6.8	6.7
20											6.7	6.5
21											6.8	6.6
22											7.0	6.6
23											7.0	6.6
24											7.1	6.9
25											7.2	6.9
26											6.9	6.7
27											6.8	6.4
28											6.7	6.4
29											6.8	6.3
30											6.5	6.2
31											---	---
MONTH											7.2	6.2

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.—Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	18.0	16.5	18.5	17.0	12.5	11.0	---	---	11.0	10.0	10.0	7.5
2	18.0	16.5	20.5	18.5	13.5	12.0	---	---	11.0	9.0	11.5	9.0
3	17.0	15.0	---	---	14.0	12.5	---	---	---	---	12.0	10.5
4	17.5	15.0	18.5	17.5	14.5	13.0	---	---	---	---	13.5	11.5
5	20.0	16.5	18.0	16.5	14.0	9.0	---	---	---	---	15.0	13.0
6	20.5	18.0	---	---	12.5	8.0	---	---	---	---	15.5	14.5
7	20.0	17.0	---	---	13.5	11.0	---	---	---	---	14.5	11.0
8	18.5	16.5	---	---	14.0	12.5	10.0	9.5	9.5	8.0	11.0	9.5
9	17.5	15.5	---	---	13.5	11.5	9.5	8.0	9.5	9.0	11.5	9.5
10	16.0	15.0	---	---	12.0	10.5	8.0	5.5	10.0	8.5	12.5	11.0
11	19.0	15.5	---	---	11.5	10.0	5.5	5.5	10.0	9.0	13.5	11.5
12	20.5	19.0	---	---	11.0	8.5	5.5	2.5	10.0	9.0	15.0	12.5
13	20.5	17.0	---	---	10.0	9.0	5.0	4.0	10.5	9.0	15.5	14.0
14	18.5	16.0	---	---	10.0	9.5	5.0	4.5	10.0	8.5	16.5	14.5
15	18.0	16.5	---	---	10.5	9.0	6.5	5.5	10.0	9.0	15.5	14.5
16	---	---	---	---	10.5	8.5	6.0	5.0	11.5	10.0	14.0	13.5
17	---	---	---	---	9.5	9.0	5.5	4.0	13.0	12.0	14.5	13.5
18	---	---	---	---	10.0	8.0	6.5	4.5	12.0	11.5	15.5	13.5
19	---	---	---	---	8.0	6.5	7.5	6.5	12.5	11.5	17.0	15.0
20	17.0	15.5	14.0	12.5	7.0	6.0	9.0	6.5	12.0	11.0	18.5	17.0
21	17.0	14.0	13.0	12.0	7.5	5.5	11.0	9.5	13.0	11.0	19.0	17.5
22	18.0	15.0	13.0	12.0	9.0	6.0	11.5	10.0	12.0	10.5	17.5	16.0
23	18.0	16.0	14.5	11.0	10.0	9.0	11.0	9.0	12.0	11.0	16.5	15.0
24	17.0	14.0	14.5	11.0	10.0	9.5	9.0	7.5	13.0	11.5	16.0	15.5
25	14.0	13.0	13.0	12.5	9.5	8.0	9.0	7.0	13.0	12.5	16.5	15.5
26	15.5	14.0	13.0	12.5	8.5	8.0	8.5	7.0	12.5	9.5	16.0	14.5
27	16.0	14.0	15.5	13.0	9.5	8.5	8.5	6.5	9.5	7.0	14.0	12.5
28	18.0	15.0	17.5	15.5	9.5	9.0	7.5	6.0	8.0	7.0	13.5	11.5
29	18.0	16.0	16.0	15.0	10.0	9.5	7.5	6.5	---	---	13.0	12.0
30	18.0	15.5	15.5	13.0	9.5	8.5	9.0	7.0	---	---	14.5	12.5
31	18.0	16.0	---	---	8.5	6.0	10.5	9.0	---	---	16.0	14.0
MONTH	20.5	13.0	20.5	11.0	14.5	5.5	11.5	2.5	13.0	7.0	19.0	7.5

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	17.0	15.5	17.5	16.0	26.0	24.0	26.5	25.5	24.5	23.5	26.5	24.0
2	17.0	16.0	18.0	17.0	24.0	23.5	26.5	25.0	25.5	24.5	24.5	22.5
3	17.5	16.0	19.5	17.0	24.0	22.5	25.5	24.5	26.5	25.0	23.5	22.0
4	16.5	15.5	20.0	19.0	23.0	22.0	25.0	24.5	26.0	24.5	23.5	22.5
5	16.0	13.5	20.5	19.5	22.5	22.0	28.0	26.5	25.0	22.0	24.0	22.0
6	13.5	13.0	20.5	19.5	24.0	22.5	27.5	25.0	25.5	22.0	23.0	21.5
7	13.5	12.0	20.0	19.0	25.0	22.5	26.0	24.5	26.5	24.5	---	---
8	13.0	11.5	19.0	17.5	25.5	23.5	26.0	25.5	26.5	24.5	20.5	18.5
9	12.0	10.5	19.5	18.0	26.0	24.0	26.5	25.5	26.5	25.0	21.0	18.0
10	13.5	11.5	21.0	18.5	24.5	23.0	26.5	25.0	26.0	23.5	20.0	17.5
11	14.5	12.5	22.0	20.5	27.5	24.0	25.5	24.5	24.0	22.5	19.5	17.5
12	16.0	13.0	22.5	21.5	26.5	24.5	25.0	24.5	26.0	23.5	21.0	19.5
13	16.0	14.5	22.0	21.5	24.5	23.5	26.0	23.5	27.5	25.5	22.0	19.5
14	16.0	15.5	21.5	20.5	26.0	24.0	26.0	25.5	27.0	25.0	22.5	18.0
15	16.0	14.5	23.5	21.0	25.5	24.5	25.5	24.5	26.0	24.5	22.0	18.0
16	17.5	15.5	23.5	21.5	26.5	25.5	25.5	23.5	25.5	24.0	22.0	20.5
17	17.5	16.5	24.0	22.0	26.0	24.0	24.5	23.5	25.5	23.0	23.0	18.5
18	17.0	16.0	24.0	22.0	25.5	24.0	24.5	23.5	23.0	20.0	23.5	21.5
19	16.0	15.5	24.0	22.0	26.5	25.0	25.5	24.0	23.0	20.0	23.5	21.0
20	16.0	14.5	23.0	22.0	26.5	25.0	26.5	25.0	23.5	20.5	24.5	22.5
21	16.5	15.0	23.0	21.5	26.5	24.5	27.0	26.0	23.0	20.5	24.5	23.5
22	16.5	15.0	23.0	21.5	26.0	23.0	27.0	23.5	24.5	22.0	23.5	20.5
23	16.0	14.5	22.5	21.0	24.5	23.0	25.0	23.5	26.0	22.5	21.0	17.0
24	16.0	14.5	21.5	21.0	25.5	24.5	25.5	24.0	26.5	25.0	18.0	16.5
25	16.0	14.5	22.0	21.0	26.0	24.5	---	---	27.0	21.5	19.0	17.0
26	16.0	14.5	22.0	21.5	26.0	25.0	---	---	22.5	19.0	19.5	18.0
27	16.5	15.5	23.0	22.0	25.5	24.0	---	---	23.5	19.0	20.0	17.5
28	17.0	16.0	23.5	22.0	24.5	23.0	27.0	25.5	24.0	21.0	20.0	19.0
29	16.5	16.0	24.5	23.5	24.0	23.0	27.0	25.0	25.5	23.0	19.0	16.0
30	17.5	16.0	26.5	24.0	---	---	26.5	24.0	26.0	24.0	18.5	16.0
31	---	---	26.5	24.5	---	---	25.0	22.5	27.0	25.0	---	---
MONTH	17.5	10.5	26.5	16.0	27.5	22.0	28.0	22.5	27.5	19.0	26.5	16.0
YEAR	28.0	2.5										

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.—Continued

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	8.3	7.1	7.4	6.1	9.7	7.9	---	---	9.1	8.2	10.5	9.6
2	8.0	7.1	6.0	5.5	9.1	7.5	---	---	9.8	8.8	10.0	9.0
3	8.6	7.9	---	---	---	---	---	---	---	---	9.3	8.6
4	8.6	7.0	7.6	7.0	---	---	---	---	---	---	9.0	8.2
5	7.2	5.9	8.0	7.1	---	---	---	---	---	---	8.2	7.4
6	7.6	6.8	---	---	9.5	8.9	---	---	---	---	7.8	7.3
7	7.9	6.3	---	---	9.5	8.5	---	---	---	---	9.4	7.5
8	8.1	6.8	---	---	8.9	8.2	9.6	9.3	10.5	10.0	10.1	9.6
9	8.4	7.2	---	---	8.4	7.8	10.1	9.7	9.9	9.2	10.1	9.3
10	8.2	6.6	---	---	9.2	8.2	10.8	10.1	10.0	9.2	9.6	8.7
11	7.6	6.4	---	---	9.3	8.9	11.4	10.7	10.4	9.7	9.0	8.4
12	6.3	5.8	---	---	10.2	9.1	12.8	11.5	10.1	9.6	8.6	8.0
13	7.7	5.8	---	---	9.9	9.4	12.1	11.5	10.1	9.3	8.1	7.6
14	8.6	7.1	---	---	9.9	9.0	11.6	11.2	10.1	9.6	7.6	7.4
15	8.4	6.9	---	---	9.9	9.3	11.3	11.2	10.0	9.7	8.1	6.4
16	---	---	---	---	10.3	9.5	11.6	11.4	9.7	8.8	8.5	7.7
17	---	---	---	---	10.2	9.3	11.7	11.3	8.9	7.5	8.8	7.9
18	---	---	---	---	10.1	9.1	11.7	11.4	9.1	8.8	8.5	7.7
19	---	---	---	---	11.0	9.9	11.5	11.0	9.2	8.7	8.2	7.4
20	7.5	6.8	8.5	8.2	11.1	10.7	11.2	10.5	9.3	8.8	7.4	6.6
21	8.8	7.0	9.1	8.1	11.3	10.6	10.5	9.6	8.8	8.5	6.9	6.7
22	8.2	6.6	9.3	6.6	11.3	10.4	9.5	9.1	9.0	8.5	7.3	7.0
23	7.9	6.5	9.0	7.7	10.4	9.3	10.0	9.2	9.2	8.4	7.7	6.9
24	7.9	6.9	9.6	7.9	9.4	8.7	10.4	9.0	9.0	8.3	7.6	7.1
25	8.7	7.3	9.3	8.8	10.0	9.2	10.5	10.1	8.6	8.2	7.5	6.9
26	7.2	6.0	9.4	9.0	10.2	10.1	10.5	10.0	8.7	8.2	8.0	7.3
27	8.4	6.9	9.4	7.8	10.1	9.5	10.9	10.0	10.1	8.7	8.5	7.9
28	8.5	6.4	7.7	7.2	9.7	9.3	11.0	10.4	10.5	10.2	8.4	8.1
29	7.6	6.3	7.8	7.5	9.4	8.9	10.9	10.2	---	---	8.8	8.4
30	7.7	6.5	8.5	7.5	9.5	9.1	10.4	9.8	---	---	9.0	8.0
31	7.9	6.7	---	---	10.5	9.5	9.8	8.9	---	---	8.8	7.4
MONTH	8.8	5.8	9.6	5.5	11.3	7.5	12.8	8.9	10.5	7.5	10.5	6.4

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	8.1	7.0	8.6	7.9	5.1	4.4	5.4	4.3	6.2	5.3	5.2	3.4
2	7.7	6.9	8.1	7.6	5.7	5.0	5.2	4.7	5.8	5.4	5.5	4.2
3	7.2	6.3	7.7	6.9	5.8	4.7	4.7	4.1	5.7	4.9	6.5	5.1
4	7.2	6.2	7.0	6.6	6.2	3.7	4.1	4.1	5.9	5.1	6.1	5.6
5	8.0	7.0	6.9	6.1	6.5	5.0	4.3	4.0	6.3	5.1	5.9	5.6
6	8.8	7.9	7.1	6.1	6.3	5.8	5.6	2.7	6.1	4.2	5.9	5.8
7	9.6	8.9	6.9	6.4	6.0	5.1	5.7	4.4	4.5	4.2	---	---
8	9.4	8.9	7.4	6.5	5.2	4.6	4.5	3.6	4.6	4.2	7.5	6.3
9	9.8	9.1	8.2	7.2	6.3	4.5	4.7	4.0	4.9	4.2	7.7	6.2
10	9.9	9.1	7.4	6.3	6.6	5.5	4.6	4.1	6.1	4.2	7.9	6.5
11	9.6	8.8	6.6	5.9	5.4	3.9	4.9	4.0	6.3	5.2	7.9	6.6
12	9.1	8.2	6.3	5.7	4.4	3.9	5.3	4.9	6.1	4.5	6.8	6.0
13	8.4	7.8	6.2	5.7	5.2	3.9	5.6	4.7	5.1	4.1	6.4	5.4
14	8.4	7.7	7.1	6.3	4.8	4.4	5.1	4.5	5.1	4.0	7.7	5.4
15	8.9	7.7	6.6	5.4	4.9	4.1	5.1	4.0	5.1	4.8	7.6	5.9
16	8.3	6.8	5.9	5.1	4.9	4.5	6.0	4.7	5.2	4.9	6.6	5.9
17	7.7	6.5	5.6	4.7	5.5	4.7	5.8	5.5	5.7	4.8	7.5	5.5
18	7.8	6.4	5.2	4.3	6.2	5.4	5.8	5.3	7.4	5.7	6.3	4.9
19	8.0	7.3	5.6	4.2	6.0	5.3	5.8	5.3	7.4	6.2	5.7	4.8
20	8.3	7.2	5.8	5.0	6.0	4.9	5.7	4.7	7.4	6.2	5.2	4.5
21	8.5	8.0	6.4	5.2	5.6	4.1	5.2	4.6	7.5	6.3	4.7	4.0
22	8.3	7.7	6.1	4.5	4.8	3.8	6.6	4.1	6.6	5.4	5.2	4.0
23	8.6	7.9	6.0	3.3	5.7	3.1	6.0	4.1	5.7	4.7	7.5	5.2
24	8.5	7.6	6.5	5.2	5.6	3.5	5.5	4.8	4.9	4.4	8.0	7.2
25	8.4	7.8	6.4	5.5	5.2	4.7	---	---	7.2	4.3	7.8	6.3
26	9.1	8.6	6.0	5.4	4.7	4.5	---	---	7.7	6.5	7.1	6.2
27	8.8	8.4	6.4	5.4	4.7	4.4	---	---	7.9	5.5	6.6	5.6
28	8.9	8.5	6.4	5.1	5.3	4.8	5.4	4.8	7.0	5.3	7.2	6.1
29	8.6	8.2	5.9	4.8	5.2	4.7	5.8	4.7	5.7	4.7	8.2	7.0
30	8.5	7.9	5.1	4.6	---	---	6.3	5.0	4.9	4.5	8.2	7.3
31	---	---	5.0	4.5	---	---	6.3	5.3	4.6	3.8	---	---
MONTH	9.9	6.2	8.6	3.3	6.6	3.1	6.6	2.7	7.9	3.8	8.2	3.4
YEAR	12.8	2.7										

02337500 SNAKE CREEK NEAR WHITESBURG, GA.

LOCATION.—Lat 33°31'46", long 84°55'42", Carroll County, Hydrologic Unit 03130002, at downstream end of left bank pier of highway bridge, at Banning Mills, 1.5 mi (2.4 km) north of State Highway 16, 3 mi (4.8 km) northwest of Whitesburg, 4 mi (6.4 mi) downstream from Little Snake Creek, and 7 mi (11.3 km) upstream from mouth.
DRAINAGE AREA.—37 mi^2 (96 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—September 1954 to current year.
GAGE.--Water-stage recorder. Altitude of gage is 850 ft (259 m), from topographic map.
REMARKS.--Records good.
AVERAGE DISCHARGE.—28 years, 58.1 ft^3/s (1.645 m^3/s), 21.32 in/yr (542 mm/yr).
EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 7,690 ft^3/s (218 m^3/s) Feb. 25, 1961, gage height, 14.40 ft (4.389 m); minimum, 2.3 ft^3/s (0.065 m^3/s) Oct. 7, 1954, gage height, 1.56 ft (0.475 m).
EXTREMES FOR CURRENT YEAR.—Peak discharges above base of 1,000 ft^3/s (28.3 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 3	0400	*6680	189	13.40	4.084	Apr. 25	1645	1360	38.5	6.13	1.868

Minimum discharge, 8.5 ft^3/s (0.24 m^3/s) Oct. 3, 7, gage height, 1.87 ft (0.570 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.6	15	48	92	47	57	51	79	66	54	70	35
2	9.1	15	35	60	490	55	50	75	52	49	66	50
3	8.9	14	25	222	2570	53	60	70	60	48	54	41
4	9.3	15	21	236	240	52	52	64	196	47	49	35
5	9.5	14	19	92	116	51	151	62	105	44	45	33
6	9.1	14	19	67	90	54	92	60	72	43	46	32
7	8.8	13	18	67	75	97	71	60	61	44	43	31
8	8.9	14	17	67	69	69	68	99	56	44	49	30
9	9.8	14	17	54	69	61	67	67	51	43	48	30
10	18	15	16	46	67	58	60	61	51	43	43	32
11	16	14	16	41	60	55	58	58	49	64	42	35
12	13	13	16	42	58	54	56	56	52	64	40	34
13	12	15	16	42	57	53	55	55	79	47	70	46
14	12	13	22	39	54	53	55	54	52	50	90	38
15	11	13	25	38	56	215	62	52	48	63	56	34
16	11	14	22	38	93	166	64	54	48	49	48	31
17	11	14	20	38	109	98	66	54	49	46	48	30
18	11	14	19	37	79	83	63	52	47	90	50	32
19	11	14	18	38	68	74	64	50	46	77	56	30
20	11	24	20	40	62	70	259	54	46	59	46	29
21	11	17	21	43	60	68	113	56	46	49	42	27
22	12	16	20	42	55	67	84	72	46	157	39	26
23	13	15	21	59	54	60	72	89	45	112	38	26
24	13	17	21	59	52	58	66	81	44	63	36	26
25	15	16	73	49	50	57	530	90	44	69	36	27
26	21	16	47	44	52	55	289	95	54	60	35	28
27	23	15	35	41	66	53	144	79	159	61	33	28
28	18	15	34	39	63	52	105	67	82	49	33	27
29	16	15	34	37	---	51	91	59	74	55	33	26
30	15	19	29	36	---	51	84	56	62	83	33	26
31	15	---	134	47	---	52	---	53	---	64	34	---
TOTAL	392.0	452	898	1892	4981	2152	3102	2033	1942	1890	1451	955
MEAN	12.6	15.1	29.0	61.0	178	69.4	103	65.6	64.7	61.0	46.8	31.8
MAX	23	24	134	236	2570	215	530	99	196	157	90	50
MIN	8.8	13	16	36	47	51	50	50	44	43	33	26
CFSM	.34	.41	.78	1.65	4.81	1.88	2.78	1.77	1.75	1.65	1.27	.86
IN.	.39	.45	.90	1.90	5.01	2.16	3.12	2.04	1.95	1.90	1.46	.96

CAL YR 1981 TOTAL 12797.7 MEAN 35.1 MAX 486 MIN 8.8 CFSM .95 IN 12.87
WTR YR 1982 TOTAL 22140.0 MEAN 60.7 MAX 2570 MIN 8.8 CFSM 1.64 IN 22.26

02337500 SNAKE CREEK NEAR WHITESBURG, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1970 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
APR								
06...	0715	98	27	22	6.7	7.0	13.0	9.2
SEP								
08...	0700	30	28	28	--	--	18.5	8.8

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (FTU)	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)
APR												
06...	46	22	7	.00	1.5	.7	2.0	37	.4	.8	8.0	3.0
SEP												
08...	20	8.4	7	.00	1.6	.8	2.3	38	.4	.7	12	2.0

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)
APR											
06...	2.1	<.1	7.7	32	23	8.5	.12	.11	.040	.030	.41
SEP											
08...	2.2	<.1	10	41	27	3.3	<.10	<.10	<.010	<.010	--

DATE	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	NITRO-GEN DIS-SOLVED (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)
APR											
06...	.36	.45	.39	.50	.57	.030	<.010	2.3	10	1	1
SEP											
08...	--	1.40	.20	--	--	.020	<.010	2.0	20	1	1

DATE	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	ZINC, DIS-SOLVED (UG/L AS ZN)
APR											
06...	<1	10	<1	75	4	<1	28	<.1	<.1	<1	<12
SEP											
08...	<1	10	2	160	4	2	35	<.1	<.1	<1	<4

02338000 CHATTAHOOCHEE RIVER NEAR WHITESBURG, GA.

LOCATION.--Lat 33°28'37", long 84°54'04", Carroll-Coweta County line, Hydrologic Unit 03130002, at downstream end of right bank pier of bridge on State Highway 16, 0.5 mi (0.8 km) upstream from Central of Georgia Railroad bridge, 1.2 mi (1.9 km) southeast of Whitesburg, 1.5 mi (2.4 km) downstream from Cedar Creek, 2.0 mi (3.2 km) downstream from Snake Creek, and at mile 259.8 (418.0 km).

DRAINAGE AREA.--2,430 mi^2 (6,290 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1938 to June 1954, January 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 682.06 ft (207.892 m) National Geodetic Vertical Datum of 1929. Prior to May 1, 1949, nonrecording gage at site 1.0 mi (1.6 km) upstream at datum 2.00 ft (0.61 m) higher. May 1, 1949, to June 30, 1954, nonrecording gage at present site at datum 2.00 ft (0.61 m) higher.

REMARKS.--Records good. Flow regulated by Lake Sidney Lanier since January 1956. (See "Lakes and Reservoirs in Apalachicola River Basin," station 02334400.) Diversions and return flows above station regulated by Gwinnett, DeKalb, and Cobb Counties, and by the city of Atlanta. Considerable diurnal fluctuation caused by Morgan Falls hydroelectric plant.

AVERAGE DISCHARGE.--32 years, 4,029 ft^3/s (114.1 m^3/s), 22.52 in/yr (572 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 59,000 ft^3/s (1,670 m^3/s) Jan. 10, 1946, gage height, 25.1 ft (7.65 m), site and datum then in use, from graph based on gage readings, from rating extended above 30,000 ft^3/s (850 m^3/s) on basis of velocity-area and channel-capacity studies; minimum daily, 468 ft^3/s (13.3 m^3/s) Oct. 26, 1941.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 36,900 ft^3/s (1,050 m^3/s) Feb. 4, gage height, 21.89 ft (6.672 m); minimum daily, 1,370 ft^3/s (38.8 m^3/s) Oct. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3370	2220	4800	9830	3120	3280	2400	3280	2270	2560	3160	2000
2	3430	1570	4650	5570	2790	2940	2460	2990	3020	2230	2580	3270
3	3370	1990	3540	6720	27600	2770	2410	2720	2400	1940	2410	6000
4	2480	2390	3240	16300	36600	2710	2590	2680	3560	1740	2440	3180
5	1370	3060	2990	12800	32100	2450	4110	2670	4380	1740	2480	1920
6	1930	2790	2050	6660	15100	2400	7070	2620	2740	2620	2230	1660
7	2550	2690	1750	3950	5770	4780	4200	2480	2220	2890	1660	1680
8	2540	2090	1620	3320	3300	5260	3670	3620	2100	2210	1730	2540
9	2690	1460	1600	2720	3240	3570	5700	3560	2290	2050	2170	2570
10	3090	1850	1650	2440	4440	3120	4430	2500	2640	1950	2740	2600
11	3010	2410	1510	2210	3720	2760	3250	2380	1840	2510	4720	2630
12	1590	2430	1590	2870	3280	2610	2660	2330	1750	2380	3500	1940
13	2050	2330	1500	3280	3180	2550	2580	2420	2720	2410	2290	1600
14	2700	2390	1560	2460	2810	2370	2680	2760	2470	2130	2360	2580
15	2840	2080	2880	2190	2720	4460	4100	2160	2090	2470	2230	3330
16	2720	1450	2610	2270	3020	6520	4770	1900	1970	3670	1880	2650
17	2880	1860	2040	2510	5600	3920	4070	1890	1930	2920	2790	2820
18	2150	2500	1910	2200	4580	4520	4750	2240	1990	2900	4630	1990
19	1420	2420	1850	2200	3620	3790	3450	2420	1890	3560	4590	1660
20	1950	2510	1720	2450	3140	3170	6310	2260	1790	2930	3400	1460
21	2600	2930	1570	2420	2700	2690	6470	2390	1600	2310	3020	1450
22	2610	2370	1660	2750	2630	2700	4190	2540	1950	2820	2260	1530
23	2590	1700	1870	2960	2650	2690	3530	2910	3960	4720	1780	2180
24	2810	3850	2080	4000	2580	2560	3000	3150	2210	2540	1830	2750
25	2320	6200	4370	2750	2510	2460	5520	2910	1880	2580	2570	2290
26	2290	6050	5270	2610	2340	2540	15100	3030	1990	2270	3380	1660
27	2650	3570	3020	2710	3050	2400	9110	2770	2030	2500	2830	1960
28	2950	1920	2360	2630	4170	2160	7220	2540	3530	2350	2290	2160
29	2850	1660	2560	2430	---	2090	5360	2360	3940	2290	1890	2820
30	2840	1750	2170	2240	---	2130	3660	2090	3360	2830	1540	3080
31	2800	---	3670	2290	---	2400	---	1920	---	3040	1540	---
TOTAL	79480	76490	77660	124740	192360	96770	140820	80490	74510	80060	80920	71960
MEAN	2564	2550	2505	4024	6870	3122	4694	2596	2484	2583	2610	2399
MAX	3430	6200	5270	16300	36600	6520	15100	3620	4380	4720	4720	6000
MIN	1370	1450	1500	2190	2340	2090	2400	1890	1600	1740	1540	1450

CAL YR 1981 TOTAL 922200 MEAN 2527 MAX 21200 MIN 1320 MEAN† 2105 CFSM† 0.87 IN† 11.76
WTR YR 1982 TOTAL 1176260 MEAN 3223 MAX 36600 MIN 1370 MEAN† 3621 CFSM† 1.49 IN† 20.23

† ADJUSTED FOR CHANGE IN CONTENTS IN LAKE SIDNEY LANIER.

02338000 CHATTAHOOCHEE RIVER NEAR WHITESBURG, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1968 to May 1972, July 1975 to current year.
PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: August 1975 to September 1976, November 1978 to current year.
INSTRUMENTATION.--Water-temperature recorder since November 1978.
REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey. No daily water-temperature record Oct. 4-29, Nov. 6 to Dec. 9.
EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 31.5°C June 24, 1981; minimum, 1.5°C Jan. 13, 1982.
EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 29.5°C July 5; minimum, 1.5°C Jan. 13.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	TEMPER-ATURE, AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT										
07...	1545	2910	--	72	6.9	6.8	19.0	20.5	6.9	76
NOV										
04...	0930	2230	70	71	6.9	7.0	17.0	18.0	7.0	73
DEC										
07...	1630	1700	84	84	7.1	6.9	11.0	16.0	8.6	78
JAN										
07...	1405	3720	62	61	6.5	6.7	8.5	19.0	10.1	87
FEB										
09...	1445	3360	77	77	6.8	6.8	8.0	15.0	9.8	84
MAR										
10...	1130	3210	77	75	6.5	6.9	10.5	20.5	9.5	85
APR										
08...	1320	3800	--	79	7.0	7.1	13.0	8.0	8.6	83
MAY										
06...	1030	2580	76	75	7.1	6.9	19.0	25.0	9.0	99
JUN										
08...	1530	2210	--	81	--	6.9	24.5	32.5	6.5	86
29...	1715	5000	--	78	7.0	6.9	25.0	35.0	7.4	91
AUG										
10...	1545	3040	80	83	7.0	7.3	25.0	34.5	7.7	95
SEP										
09...	1015	2680	--	68	6.9	6.9	19.0	25.0	6.2	67

DATE	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT										
07...	15	2.4	230	12	34	80	1.2	.300	.330	1.0
NOV										
04...	10	1.7	90	17	25	64	.77	.200	.400	2.5
DEC										
07...	9	2.2	<30	20	11	56	1.0	.680	.260	3.2
JAN										
07...	82	2.0	2100	11	72	148	.60	.240	.240	5.0
FEB										
09...	30	1.9	490	18	41	96	.67	.600	.210	4.0
MAR										
10...	19	2.5	720	19	16	88	.59	.400	.230	2.0
APR										
08...	23	2.0	1300	18	23	84	.72	.420	.240	4.0
MAY										
06...	13	2.0	140	14	33	100	.88	.260	.240	1.0
JUN										
08...	15	1.8	490	19	47	112	1.5	.340	.320	4.0
29...	132	3.9	--	14	320	388	1.0	.400	.540	5.0
AUG										
10...	45	1.9	700	19	80	150	1.3	.250	.400	--
SEP										
09...	27	1.7	4900	15	62	120	1.1	.220	.330	2.5

02338000 CHATTAHOOCHEE RIVER NEAR WHITESBURG, GA.—Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT					
01...	1115	3630	56	549	--
01...	1120	3630	50	490	--
NOV					
11...	1545	2810	20	152	--
11...	1550	2810	21	159	--
DEC					
16...	1640	2660	37	266	--
16...	1645	2660	42	302	--
FEB					
03...	0245	12000	939	30400	56
03...	1100	30300	695	56900	--
03...	1105	30300	730	59700	--
03...	1615	34700	438	41000	--
03...	1620	34700	493	46200	--
03...	1745	35300	474	45200	--
03...	1750	35300	503	47900	--
04...	0810	36900	297	29600	--
04...	0815	36900	333	33200	--
04...	1645	36600	214	21100	--
05...	1430	31500	300	25500	45
05...	1435	31500	216	18400	--
06...	1315	11800	144	4590	--
06...	1320	11800	147	4680	--
APR					
05...	1415	3690	105	1050	--
05...	1420	3690	106	1060	--
28...	0830	7930	109	2330	--
28...	0835	7930	119	2550	--
JUN					
07...	1230	2250	53	322	--
07...	1235	2250	51	310	--
JUL					
27...	1200	2590	102	713	--
27...	1205	2590	108	755	--
AUG					
30...	1010	1570	28	119	--
30...	1015	1570	28	119	--

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM
FEB							
03...	0245	12000	56	74	88	96	100

02338000 CHATTAHOOCHEE RIVER NEAR WHITESBURG, GA.--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	18.5	17.0	17.5	15.5	---	---	6.0	5.0	10.0	9.0	8.5	7.0
2	18.5	17.5	19.0	17.5	---	---	6.5	5.5	10.0	8.0	10.5	8.0
3	18.5	16.5	20.0	18.5	---	---	7.5	6.5	7.5	6.5	11.5	9.5
4	---	---	20.0	17.0	---	---	8.5	7.0	6.5	6.5	12.5	10.5
5	---	---	18.0	17.5	---	---	8.5	7.5	7.0	6.5	14.5	12.5
6	---	---	---	---	---	---	7.5	7.0	7.5	7.0	15.0	14.5
7	---	---	---	---	---	---	9.0	7.5	8.0	7.0	14.5	12.0
8	---	---	---	---	---	---	9.0	8.5	7.5	7.0	12.0	10.5
9	---	---	---	---	---	---	8.5	7.5	9.0	7.5	11.5	9.5
10	---	---	---	---	9.5	8.5	7.0	4.5	9.5	8.5	12.5	10.5
11	---	---	---	---	8.5	8.0	4.0	3.0	10.0	8.0	13.0	11.5
12	---	---	---	---	8.5	8.0	3.5	2.5	9.0	8.5	14.5	12.5
13	---	---	---	---	8.0	7.0	3.5	1.5	10.0	8.5	15.0	14.0
14	---	---	---	---	8.0	7.0	3.5	3.0	9.5	8.0	16.5	15.0
15	---	---	---	---	8.0	7.5	3.5	2.0	9.0	9.0	16.0	15.5
16	---	---	---	---	9.0	6.5	5.0	4.0	10.5	9.5	15.5	14.5
17	---	---	---	---	7.5	7.0	4.5	3.0	12.5	10.5	14.5	14.0
18	---	---	---	---	7.5	6.5	3.5	3.0	12.5	12.0	15.5	14.0
19	---	---	---	---	6.5	5.0	6.0	3.5	13.0	11.0	17.0	15.0
20	---	---	---	---	5.0	4.0	7.0	6.0	12.5	11.0	18.5	16.5
21	---	---	---	---	4.5	3.5	9.5	7.5	12.5	10.5	19.0	18.0
22	---	---	---	---	6.0	4.5	10.0	10.0	12.0	11.0	18.5	16.5
23	---	---	---	---	8.5	6.0	10.0	9.0	12.0	10.5	16.5	15.5
24	---	---	---	---	8.5	8.0	9.0	7.5	13.0	11.0	16.0	15.5
25	---	---	---	---	8.5	7.5	7.5	6.0	13.0	12.0	16.5	15.5
26	---	---	---	---	7.5	7.5	7.5	6.0	12.5	10.0	16.0	15.0
27	---	---	---	---	8.0	7.5	7.0	5.0	9.5	8.5	15.0	13.0
28	---	---	---	---	8.0	8.0	6.0	5.0	8.0	7.0	13.5	12.0
29	---	---	---	---	9.0	8.0	6.5	5.5	---	---	12.5	12.0
30	18.0	15.5	---	---	8.5	8.0	7.5	6.0	---	---	13.5	12.0
31	17.5	15.5	---	---	8.0	6.5	9.0	7.5	---	---	15.0	13.5
MONTH	18.5	15.5	20.0	15.5	9.5	3.5	10.0	1.5	13.0	6.5	19.0	7.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	17.5	15.0	18.0	16.0	26.5	25.5	26.0	24.0	25.0	23.0	27.0	25.5
2	17.5	16.0	18.0	16.5	26.0	24.5	26.5	25.0	26.0	24.0	26.5	23.5
3	18.0	16.5	19.0	17.0	25.0	23.5	27.5	26.0	26.5	25.0	24.0	22.5
4	17.5	16.0	20.0	18.0	24.5	22.0	28.5	27.0	27.5	25.5	23.5	22.0
5	16.5	14.0	20.5	19.0	23.5	22.0	29.5	27.5	26.5	25.0	23.5	22.5
6	14.0	13.0	21.0	19.0	24.0	22.0	28.5	27.0	24.5	23.0	24.0	22.5
7	13.5	12.5	21.0	19.5	24.0	22.5	26.5	25.5	26.0	24.5	23.5	22.0
8	13.5	12.5	19.5	18.5	25.0	23.0	26.5	25.5	26.0	25.5	23.5	21.5
9	12.5	11.5	20.0	18.0	26.0	24.5	26.5	25.5	26.5	25.0	21.5	19.5
10	13.0	11.5	20.5	18.0	26.0	24.0	26.5	26.5	27.0	25.5	20.5	19.0
11	14.0	12.5	22.0	19.5	26.0	24.0	26.5	25.5	25.5	24.0	20.0	18.5
12	15.0	13.0	23.0	21.0	25.5	25.0	25.5	24.0	25.0	23.5	20.5	18.5
13	15.5	14.5	23.0	21.5	25.0	24.0	26.0	24.5	26.0	24.5	21.5	20.5
14	16.0	15.5	23.0	21.0	25.5	23.5	26.0	25.0	27.0	25.0	23.5	21.0
15	17.0	16.0	22.5	20.5	26.0	24.5	26.5	25.0	26.5	25.0	22.5	20.0
16	17.5	15.5	23.5	22.0	26.0	25.0	26.0	24.5	26.0	25.0	23.5	19.5
17	17.5	17.0	23.0	22.0	26.0	25.5	25.5	24.0	25.5	24.0	23.0	21.0
18	18.0	16.5	24.0	22.0	26.0	25.0	25.5	24.0	24.0	21.5	24.0	20.5
19	17.0	16.0	24.0	22.5	26.0	25.0	25.5	24.0	22.5	21.0	24.5	23.0
20	16.0	15.0	23.5	22.0	27.0	26.0	26.5	24.5	24.0	21.0	23.5	22.0
21	16.5	15.5	23.5	22.5	26.0	25.5	28.0	25.5	24.0	21.5	24.0	22.5
22	16.0	15.5	23.5	22.0	26.5	25.0	28.0	26.5	23.5	21.0	23.0	22.0
23	16.0	14.5	22.5	21.5	26.0	23.5	26.0	23.5	25.5	23.5	22.0	20.5
24	16.0	14.5	22.0	20.5	26.0	24.0	25.5	24.0	26.5	24.5	19.5	17.0
25	16.0	14.5	22.0	21.0	26.0	25.0	26.0	25.0	27.5	25.5	18.5	16.5
26	15.5	14.5	22.5	21.0	26.0	25.0	26.5	25.5	25.0	21.5	19.0	18.0
27	16.5	15.5	23.0	21.5	26.0	24.0	28.5	26.5	22.0	20.5	20.0	18.5
28	17.0	16.5	24.5	22.5	24.5	24.0	28.0	26.5	24.5	21.5	20.5	18.0
29	17.0	16.5	25.0	23.5	24.5	23.5	28.0	26.5	24.5	22.0	20.5	18.5
30	17.5	16.0	25.0	24.5	25.5	23.5	27.5	25.0	25.0	24.0	19.0	17.0
31	---	---	26.5	25.0	---	---	26.0	24.0	26.5	24.0	---	---
MONTH	18.0	11.5	26.5	16.0	27.0	22.0	29.5	23.5	27.5	20.5	27.0	16.5
YEAR	29.5	1.5										

02338500 CHATTAHOOCHEE RIVER AT FRANKLIN, GA.

LOCATION.--Lat 33°16'45", long 85°06'00", Heard County, Hydrologic Unit 03130002, at bridge on U.S. Highway 27 at Franklin, and at mile 235.5 (378.9 km).
DRAINAGE AREA.--2,680 mi² (6,940 km²), approximately.
PERIOD OF RECORD.--July 1975 to current year.
REMARKS.--Flow regulated by Lake Sidney Lanier. (See "Lakes and Reservoirs in Apalachicola River Basin," station 02334400). Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Air Temperature, Water Temperature, pH, Dissolved Oxygen, and Specific Conductance by U.S. Geological Survey. Records of discharge for the calendar years 1928-31 and 1938-39 are published in reports of the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	TEMPER-ATURE, AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT									
07...	1315	100	100	7.2	6.9	22.0	31.5	7.4	85
NOV									
04...	1500	90	89	7.1	7.1	20.0	24.5	7.6	85
DEC									
07...	1400	80	84	7.0	7.1	11.0	18.5	9.7	89
JAN									
07...	1230	61	62	6.5	6.7	9.0	17.5	10.3	90
FEB									
09...	1250	73	72	7.0	6.8	8.5	19.0	10.2	89
MAR									
10...	1530	71	74	6.7	7.0	13.0	19.0	10.7	--
APR									
08...	1120	71	76	7.0	7.1	13.0	9.0	9.4	91
MAY									
06...	0930	83	83	6.9	7.1	20.5	24.0	7.6	86
JUN									
08...	1300	87	83	--	7.0	25.0	31.0	7.3	90
29...	1600	--	86	6.9	7.1	25.0	35.0	7.5	92
AUG									
11...	0800	87	90	6.9	7.1	27.5	25.0	8.1	104
SEP									
08...	1400	105	100	7.3	7.3	24.0	28.5	7.3	87

DATE	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT										
07...	12	1.6	230	13	25	92	2.0	.240	.390	2.0
NOV										
04...	10	1.6	150	15	27	76	1.3	.170	.470	3.0
DEC										
07...	10	1.7	2300	15	13	73	.70	.140	.180	1.7
JAN										
07...	80	3.3	2900	12	82	152	.78	.180	.350	4.0
FEB										
09...	40	1.6	490	13	61	112	.64	.340	.180	3.0
MAR										
10...	21	1.6	330	14	22	84	.70	.220	.070	4.0
APR										
08...	25	1.8	2200	15	32	100	.73	.140	.240	4.0
MAY										
06...	14	1.2	130	12	30	96	1.0	.100	.230	1.0
JUN										
08...	17	.8	490	11	30	120	1.3	.090	.220	3.0
29...	31	1.2	--	16	39	120	1.0	.130	.340	2.0
AUG										
11...	48	1.5	130	17	135	184	1.6	.110	.380	--
SEP										
08...	25	1.0	1000	17	39	120	1.6	.100	.270	1.5

02338660 NEW RIVER NEAR CORINTH, GA.

LOCATION.--Lat 33°14'07", long 84°59'16", Heard County, Hydrologic Unit 03130002, at bridge on State Highway 100, 1.7 mi (2.7 km) downstream of Caney Creek, 2.5 mi (4.0 km) west of Corinth, 3.9 mi (6.3 km) downstream of Mountain Creek, and 8.1 mi (13.0 km) upstream of Chattahoochee River.
DRAINAGE AREA.--127 mi^2 (329 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1978 to current year.
GAGE.--Water-stage recorder. Datum of gage is 634.68 ft (193.450 m) National Geodetic Vertical Datum of 1929.
REMARKS.--Records good.
EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 13.92 ft (4.243 m) April 14, 1979 (discharge not determined); minimum daily discharge, 1.5 ft^3/s (0.04 m^3/s) Oct. 7, 1981.
EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,800 ft^3/s (51.0 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 4	0400	*3660	104	11.58	3.530	Apr. 21	0300	2970	84.1	10.98	3.347

Minimum daily discharge, 1.5 ft^3/s (0.04 m^3/s) Oct. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	21	49	513	160	219	98	190	82	62	87	19
2	2.8	21	84	321	200	175	93	161	83	54	74	28
3	2.4	21	61	200	1140	156	102	147	62	41	51	86
4	2.0	21	43	569	2500	145	137	132	90	35	40	58
5	1.8	23	35	818	639	136	171	121	150	37	34	36
6	1.6	25	31	349	423	140	355	114	97	33	33	28
7	1.5	23	30	208	322	328	211	108	72	30	32	24
8	1.6	21	30	183	248	400	155	158	61	28	35	21
9	2.1	21	29	148	286	234	151	144	54	45	43	19
10	13	21	27	122	575	188	129	112	49	42	42	19
11	53	23	26	112	419	164	113	99	45	34	35	23
12	31	22	27	105	272	151	104	90	43	35	32	27
13	18	22	27	117	246	141	98	86	96	37	39	26
14	13	22	37	120	204	134	100	79	97	35	43	25
15	11	22	83	135	183	129	104	74	63	36	40	23
16	10	23	79	145	201	216	101	72	52	42	33	21
17	9.6	26	58	159	473	253	104	73	47	39	30	19
18	9.8	25	48	143	433	170	140	84	46	37	51	18
19	8.7	24	41	140	262	146	128	75	43	56	123	17
20	8.4	27	41	160	205	132	1030	108	39	59	82	16
21	8.2	31	43	141	178	124	2010	113	37	48	51	15
22	8.7	28	44	125	160	142	577	99	37	39	40	14
23	10	25	51	146	146	129	348	122	40	122	37	13
24	15	28	51	227	138	124	243	148	36	119	32	13
25	19	34	189	177	130	135	361	109	32	73	28	14
26	30	33	312	140	123	122	948	163	42	50	26	15
27	41	30	148	120	212	112	659	168	47	40	24	16
28	32	32	109	110	323	100	421	102	50	34	24	15
29	26	30	145	105	---	96	279	80	50	31	23	14
30	22	31	121	100	---	97	213	69	61	38	22	13
31	21	---	190	110	---	99	---	63	---	67	21	---
TOTAL	437.4	756	2289	6268	10801	5037	9683	3453	1803	1478	1307	695
MEAN	14.1	25.2	73.8	202	386	162	323	111	60.1	47.7	42.2	23.2
MAX	53	34	312	818	2500	400	2010	180	150	122	123	86
MIN	1.5	21	26	100	123	96	93	63	32	28	21	13
CFSM	.11	.20	.58	1.59	3.04	1.28	2.54	.87	.47	.38	.33	.18
IN.	.13	.22	.67	1.84	3.16	1.48	2.84	1.01	.53	.43	.38	.20

CAL YR 1981 TOTAL 30400.4 MEAN 83.3 MAX 3290 MIN 1.5 CFSM .66 IN 8.90
WTR YR 1982 TOTAL 44007.4 MEAN 121 MAX 2500 MIN 1.5 CFSM .95 IN 12.89

02338660 NEW RIVER NEAR CORINTH, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1978 to current year.
INSTRUMENTATION.--Water-temperature recorder since October 1978.
REMARKS.--No daily water-temperature record Jan. 11 to Feb. 10.
EXTREMES FOR PERIOD OF DAILY RECORDS.--
WATER TEMPERATURES: Maximum, 32.5°C July 16, 1981; minimum, 0.0°C Jan. 12-14, 18, Dec. 20-21, 1981.
EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 28.5°C July 28; minimum recorded, 0.0°C Dec. 20-21.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	21.0	17.0	17.0	14.0	12.0	10.0	7.0	6.0	---	---	9.5	7.0
2	21.5	19.0	18.5	15.5	11.5	10.0	7.5	6.0	---	---	10.5	7.0
3	19.0	15.5	17.5	15.5	9.5	7.5	8.5	7.5	---	---	11.0	8.5
4	18.0	14.5	18.5	16.0	9.0	7.5	10.5	9.0	---	---	13.5	10.0
5	19.0	15.0	19.0	16.0	8.0	6.0	9.0	7.0	---	---	16.0	13.0
6	21.0	16.5	17.5	14.0	6.5	5.0	8.5	6.0	---	---	16.0	15.0
7	20.5	19.0	15.0	12.0	7.5	4.5	10.5	8.5	---	---	15.0	10.0
8	19.0	17.0	13.5	10.0	9.0	6.5	10.5	7.5	---	---	10.5	7.0
9	17.0	16.0	12.5	10.0	7.5	6.0	7.5	5.5	---	---	11.0	8.0
10	16.0	15.0	13.0	11.5	6.0	4.0	5.0	1.5	---	---	13.5	10.0
11	16.0	15.0	14.0	11.0	5.0	3.0	---	---	9.5	7.5	14.5	11.5
12	17.5	14.5	13.0	9.5	6.0	4.5	---	---	9.0	7.5	16.0	13.0
13	18.0	14.5	11.5	9.0	5.5	5.5	---	---	8.5	7.5	16.5	14.5
14	17.0	13.0	11.0	7.5	6.5	5.5	---	---	8.5	6.0	18.5	16.0
15	17.5	14.5	11.0	7.5	7.0	6.0	---	---	9.5	8.5	18.5	17.5
16	19.0	13.5	11.5	9.0	5.5	4.5	---	---	12.0	10.0	18.0	16.5
17	20.0	15.0	12.5	10.0	5.0	3.5	---	---	14.0	12.0	17.5	16.5
18	18.5	15.5	11.5	8.5	5.5	2.5	---	---	13.5	12.0	20.5	16.5
19	16.5	13.0	12.0	9.0	2.5	1.0	---	---	13.5	12.0	21.0	18.5
20	15.0	9.5	12.5	8.5	1.5	.0	---	---	12.5	10.0	21.0	19.5
21	15.0	9.5	9.0	6.5	1.0	.0	---	---	12.0	10.0	20.5	19.0
22	16.5	11.5	8.0	5.5	6.0	1.0	---	---	11.5	9.5	19.5	15.5
23	15.0	13.0	7.5	5.0	8.5	6.0	---	---	11.5	8.5	16.0	13.0
24	12.5	11.0	10.5	7.5	8.5	7.5	---	---	13.5	10.5	16.0	15.0
25	11.0	11.0	9.0	7.0	7.5	7.0	---	---	13.0	12.0	17.0	15.0
26	13.0	11.0	9.5	6.5	7.5	7.0	---	---	12.0	7.5	17.0	14.0
27	14.0	13.0	12.5	9.0	8.0	7.5	---	---	7.0	6.0	13.5	11.0
28	15.0	11.5	13.5	11.5	8.0	7.5	---	---	7.5	6.0	11.5	9.5
29	15.5	12.0	11.0	9.5	8.5	8.0	---	---	---	---	11.5	10.5
30	16.0	12.5	10.0	10.0	8.0	6.5	---	---	---	---	15.0	11.0
31	16.0	14.0	---	---	6.5	5.5	---	---	---	---	16.0	14.5
MONTH	21.5	9.5	19.0	5.0	12.0	.0	10.5	1.5	14.0	6.0	21.0	7.0

02338660 NEW RIVER NEAR CORINTH, GA.--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	18.5	15.0	16.5	15.0	24.5	22.5	26.0	22.5	24.5	23.5	27.5	23.0
2	18.0	16.5	17.0	15.5	24.0	21.0	26.0	22.5	25.5	23.5	26.0	23.5
3	19.5	16.5	18.0	15.5	23.5	21.5	27.0	22.5	25.5	22.0	24.0	22.5
4	17.5	14.5	18.0	16.0	22.5	21.5	27.5	23.0	26.5	22.5	23.5	21.0
5	15.0	13.5	18.5	16.5	23.0	21.0	27.5	24.0	24.5	23.5	24.0	20.5
6	13.5	12.0	19.0	17.0	23.0	21.0	26.0	24.0	26.5	22.5	24.0	20.0
7	13.0	10.5	18.0	17.0	22.5	19.5	27.0	23.5	25.5	23.0	23.5	19.5
8	13.0	11.5	18.5	17.0	23.5	19.5	25.0	23.0	25.5	22.5	24.0	19.5
9	14.0	10.5	18.5	16.0	25.0	21.0	25.0	22.5	25.0	23.0	22.0	20.0
10	14.5	12.5	19.0	16.5	25.5	21.5	26.5	22.5	26.5	23.0	21.0	20.5
11	15.0	12.5	19.5	16.5	25.5	22.0	24.5	23.5	26.5	24.0	22.5	20.5
12	15.5	12.0	20.5	17.5	23.5	21.5	24.0	22.5	26.5	23.5	23.5	21.5
13	15.5	14.5	21.0	18.0	23.0	21.0	26.0	22.0	25.5	23.5	24.0	22.0
14	16.0	15.0	21.0	18.0	23.5	21.0	24.5	22.5	25.0	23.0	26.0	22.0
15	19.0	16.0	21.5	18.5	24.0	21.0	25.5	22.5	26.0	23.0	26.5	22.5
16	20.0	18.5	21.5	19.0	25.5	22.0	25.0	22.5	25.5	23.0	26.5	22.0
17	19.0	18.0	21.0	19.0	23.5	22.0	25.5	22.5	24.0	22.5	26.0	22.5
18	18.0	16.0	21.0	18.5	24.5	21.0	24.5	23.0	24.5	22.0	27.0	22.5
19	17.5	14.5	21.5	19.5	25.0	21.0	24.5	22.5	23.0	21.5	26.5	22.0
20	14.5	13.5	20.5	19.0	25.0	22.0	25.5	22.5	24.0	21.5	25.0	21.5
21	16.0	14.5	21.5	19.0	23.5	21.5	26.5	23.0	25.5	22.5	23.5	20.0
22	15.5	14.5	22.0	20.0	25.0	22.0	28.0	24.0	25.5	22.5	21.5	17.0
23	15.0	13.0	21.0	20.0	25.5	21.5	24.5	23.0	26.0	22.5	19.5	14.5
24	15.0	13.0	21.0	19.5	25.5	21.5	24.0	23.5	26.5	23.0	19.0	14.0
25	15.5	14.5	21.5	20.0	24.0	21.5	26.0	23.0	27.5	23.5	19.0	15.5
26	16.0	14.5	21.0	20.0	23.5	21.5	27.0	23.5	28.0	23.5	19.5	16.0
27	17.5	16.0	21.5	20.0	23.5	22.0	27.5	24.0	27.0	23.0	20.5	15.5
28	17.5	15.5	23.0	20.5	25.0	22.0	28.5	24.5	26.5	23.5	20.5	16.0
29	17.0	15.5	24.0	21.5	24.0	22.5	28.0	25.0	27.0	23.0	21.0	16.5
30	17.5	15.5	25.0	22.0	25.0	22.0	25.5	24.0	25.5	23.0	21.0	16.0
31	---	---	25.5	22.5	---	---	24.5	23.5	27.0	22.5	---	---
MONTH	20.0	10.5	25.5	15.0	25.5	19.5	28.5	22.0	28.0	21.5	27.5	14.0
YEAR	28.5	.0										

02338720 CHATTAHOOCHEE RIVER NEAR LA GRANGE, GA.

LOCATION.--Lat 33°04'42", long 85°06'39", Troup County, Hydrologic Unit 03130002, at La Grange waterworks intake, 1.2 mi (1.9 km) upstream from Yellowjacket Creek, and 5.3 mi (8.5 km) northwest of La Grange.

DRAINAGE AREA.--3,010 mi^2 (7,800 km^2), approximately.

PERIOD OF RECORD.--July 1974 to current year.

REMARKS.--Flow regulated by Lake Sidney Lanier. (See "Lakes and Reservoirs in Apalachicola River Basin," station 02334400.) Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Air Temperature, Water Temperature, pH, Dissolved Oxygen, and Specific Conductance by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	TEMPER-ATURE, AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT									
07...	1215	80	79	--	8.6	21.0	27.5	11.3	129
NOV									
04...	1400	82	78	7.5	7.3	18.0	23.5	9.3	99
DEC									
07...	1230	79	78	6.8	6.9	11.5	15.5	8.7	80
JAN									
07...	1120	--	51	6.6	6.7	9.0	17.0	9.5	83
FEB									
09...	1140	42	42	6.9	--	7.0	16.5	9.9	83
MAR									
10...	1545	--	76	7.0	7.0	14.0	21.5	10.5	--
MAY									
06...	0830	59	60	8.9	8.4	21.0	25.0	12.0	137
JUN									
08...	1145	82	79	--	8.4	28.5	32.5	11.8	153
30...	0830	--	93	7.5	7.4	27.5	29.0	10.8	139
AUG									
11...	0930	--	80	7.7	7.4	27.0	25.5	9.9	126
SEP									
08...	1300	88	86	9.1	8.8	27.0	28.5	9.7	124

DATE	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, CON-FIRMED (MPN)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT											
07...	8	5.0	360	<30	13	10	.66	<.020	.60	.140	3.0
NOV											
04...	7	1.6	930	30	14	10	.84	.050	.30	.250	2.0
DEC											
07...	23	1.7	2300	290	20	37	.82	.200	.40	.280	3.5
JAN											
07...	96	2.5	15000	9300	10	63	.50	.190	.50	.220	3.0
FEB											
09...	70	1.4	17000	1400	7.0	36	.27	.100	.50	.160	4.0
MAR											
10...	11	2.6	170	170	17	7	.72	.250	.60	.150	2.0
MAY											
06...	12	4.2	3300	<20	11	23	.18	<.020	.60	.080	2.0
JUN											
08...	8	3.1	590	<20	19	3	.56	<.020	.40	.060	4.5
30...	6	3.5	790	<20	19	9	.32	.080	--	.060	12
AUG											
11...	9	1.6	230	<20	20	26	.30	--	--	.040	--
SEP											
08...	5	2.3	1300	<20	19	4	.60	.100	--	.070	3.0

02338840 YELLOWJACKET CREEK NEAR HOGANSVILLE, GA.

LOCATION.--Lat 33°08'22", long 84°58'31", Troup County, Hydrologic Unit 03130002, at bridge on Hammett Road, 0.7 mi (1.1 km) downstream of Flat Creek, 5.8 mi (9.3 km) southwest of Hogansville, and 6.9 mi (11.1 km) upstream of Beech Creek.
DRAINAGE AREA.--91.0 mi^2 (236 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1978 to current year.
GAGE.--Water-stage recorder. Datum of gage is 640.93 ft (195.355 m) National Geodetic Vertical Datum of 1929.
REMARKS.--Records good. Some diurnal fluctuation at low flow.
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,990 ft^3/s (113 m^3/s) Apr. 21, 1982, gage height, 10.71 ft (3.264 m); minimum daily discharge, 2.8 ft^3/s (0.08 m^3/s) Oct. 3, 1981.
EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,200 ft^3/s (34.0 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 4	0600	2150	60.9	8.79	2.679
Apr. 21	0100	*3990	113	10.71	3.264
Apr. 26	1400	1610	45.6	7.94	2.420

Minimum daily discharge, 2.8 ft^3/s (0.08 m^3/s) Oct. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.1	16	36	554	137	136	70	142	37	38	71	14
2	2.9	16	53	282	124	112	68	127	38	30	50	19
3	2.8	17	40	172	1270	100	77	114	33	25	38	56
4	2.9	16	31	596	1640	92	80	99	32	22	30	40
5	3.0	17	26	734	535	86	94	88	35	22	26	27
6	3.1	17	26	282	418	130	138	81	33	22	25	22
7	2.9	17	25	177	243	366	95	77	28	20	24	19
8	3.3	16	23	162	178	260	85	112	25	21	25	18
9	4.5	18	23	125	229	170	88	99	23	26	29	16
10	49	17	22	97	368	135	77	75	22	34	26	17
11	82	18	22	81	235	120	71	65	20	28	24	19
12	38	18	22	71	176	110	67	59	23	26	22	22
13	23	17	22	80	153	101	63	54	50	25	21	22
14	18	17	34	90	126	95	65	50	49	24	27	23
15	16	17	69	102	121	90	68	47	37	26	26	21
16	14	18	63	117	405	138	87	46	31	33	23	18
17	13	19	45	140	580	122	108	52	28	26	26	17
18	13	19	37	115	333	102	252	49	27	24	104	16
19	12	19	33	107	204	92	153	44	24	31	69	16
20	12	20	32	113	159	85	2050	51	23	34	45	16
21	11	19	31	100	133	82	2120	73	22	27	34	15
22	12	21	31	88	112	87	546	59	21	27	27	14
23	15	21	33	105	101	82	315	53	21	50	24	13
24	19	21	35	164	93	81	220	54	20	68	22	13
25	21	20	274	127	84	92	380	50	19	55	20	14
26	27	20	329	98	82	83	1360	61	24	37	18	17
27	27	20	154	81	162	73	600	63	39	29	17	17
28	23	23	123	73	194	69	321	54	43	24	16	17
29	20	24	142	68	---	67	218	44	41	23	16	17
30	18	24	110	66	---	67	171	39	43	28	15	17
31	17	---	253	82	---	69	---	35	---	76	15	---
TOTAL	528.5	562	2199	5249	8595	3494	10107	2116	911	981	955	592
MEAN	17.0	18.7	70.9	169	307	113	337	68.3	30.4	31.6	30.8	19.7
MAX	82	24	329	734	1640	366	2120	142	50	76	104	56
MIN	2.8	16	22	66	82	67	63	35	19	20	15	13
CFSM	.19	.21	.78	1.86	3.37	1.24	3.70	.75	.33	.35	.34	.22
IN.	.22	.23	.90	2.15	3.51	1.43	4.13	.86	.37	.40	.39	.24

CAL YR 1981 TOTAL 24303.1 MEAN 66.6 MAX 2220 MIN 2.8 CFSM .73 IN 9.93
WTR YR 1982 TOTAL 36289.5 MEAN 99.4 MAX 2120 MIN 2.8 CFSM 1.09 IN 14.83

02338840 YELLOWJACKET CREEK NEAR HOGANSVILLE, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: November 1978 to September 1982 (discontinued).
INSTRUMENTATION.--Water-temperature recorder since November 1978.
REMARKS.--No daily water-temperature record Dec. 9, Dec. 16 to Feb. 11.
EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 37.0°C July 17, 26, 1981; minimum, 0.0°C Jan. 12, 13, 18, 1981.
EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 33.0°C July 22; minimum recorded, 0.5°C Dec. 11.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	28.5	17.0	18.5	15.5	13.5	12.0			---	---	11.0	7.5
2	27.5	16.5	19.5	17.0	13.5	12.5			---	---	13.0	6.5
3	26.0	12.0	19.0	17.0	12.5	11.0			---	---	13.0	8.0
4	26.0	12.0	19.0	17.5	11.5	9.5			---	---	15.0	9.0
5	27.5	13.0	20.0	17.5	10.5	9.5			---	---	17.5	12.5
6	28.0	15.0	18.5	16.0	10.0	8.0			---	---	17.0	14.5
7	24.0	18.5	16.5	13.0	10.0	8.5			---	---	14.5	10.0
8	21.0	16.0	15.5	11.5	11.0	9.5			---	---	12.0	8.0
9	18.5	15.5	14.0	12.0	---	---			---	---	13.0	7.5
10	18.0	17.0	14.5	14.0	4.5	1.0			---	---	15.0	9.5
11	18.0	17.5	15.5	12.5	4.5	.5			---	---	16.0	11.0
12	19.0	17.0	14.5	11.5	4.5	2.5			8.5	7.5	17.5	12.0
13	19.0	17.5	13.5	11.0	4.0	3.5			10.0	7.5	18.0	13.5
14	18.5	16.0	13.0	9.5	4.5	4.0			10.5	6.0	20.0	15.5
15	19.5	17.5	13.5	9.0	5.0	3.5			10.5	8.5	19.5	16.5
16	20.5	17.0	13.5	11.5	---	---			13.5	10.0	20.0	16.5
17	21.0	18.0	14.5	11.5	---	---			13.5	12.5	18.5	17.0
18	20.0	18.0	13.5	9.0	---	---			13.5	11.5	22.5	16.5
19	18.0	16.0	14.5	10.5	---	---			15.0	12.0	23.0	17.5
20	17.0	13.5	15.0	10.5	---	---			14.0	10.0	22.5	18.5
21	17.0	13.5	11.0	8.0	---	---			14.0	10.0	23.0	18.0
22	18.5	15.0	10.5	7.0	---	---			13.5	9.0	18.5	15.5
23	17.5	16.0	10.0	7.5	---	---			14.0	8.0	19.0	12.5
24	15.5	14.0	12.5	10.0	---	---			15.5	10.0	16.0	15.0
25	14.5	13.5	11.5	9.0	---	---			14.5	11.0	18.5	15.0
26	15.5	13.5	11.5	9.0	---	---			11.5	7.5	18.0	13.0
27	16.0	15.0	14.5	11.5	---	---			7.0	6.5	15.5	10.5
28	16.5	14.0	14.5	13.5	---	---			8.0	6.5	13.5	8.5
29	17.0	14.5	13.0	12.0	---	---			---	---	12.0	10.0
30	17.0	15.0	12.5	12.0	---	---			---	---	17.5	11.0
31	17.5	16.0	---	---	---	---			---	---	17.5	14.0
MONTH	28.5	12.0	20.0	7.0	13.5	.5			15.5	6.0	23.0	6.5

02338840 YELLOWJACKET CREEK NEAR HOGANSVILLE, GA.--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	21.5	14.5	19.5	14.0	28.5	22.5	30.5	22.5	26.0	24.0	30.5	23.0
2	18.5	15.5	19.5	15.0	29.5	21.0	31.5	22.5	28.5	23.5	29.0	24.0
3	21.5	16.5	21.5	15.0	28.0	22.0	32.0	23.5	29.0	22.0	26.5	23.5
4	17.5	13.0	22.0	15.5	24.0	22.5	32.0	23.5	30.0	22.5	26.5	21.5
5	15.0	13.5	21.0	16.0	28.0	21.5	32.0	24.0	26.0	23.5	27.0	21.0
6	16.5	12.0	22.0	16.5	28.0	20.0	29.0	24.5	30.0	22.5	28.0	20.0
7	16.5	10.0	19.0	16.5	28.0	19.0	31.0	23.0	29.0	23.0	27.0	19.0
8	13.5	11.5	22.0	16.5	29.0	19.0	29.5	23.5	29.0	23.0	27.5	19.5
9	18.0	11.0	22.5	16.0	30.5	20.5	29.5	22.5	28.5	23.5	24.0	21.0
10	18.0	11.5	23.0	16.0	30.5	21.5	30.0	23.5	29.0	23.5	22.0	21.0
11	19.0	12.0	24.0	16.0	30.5	22.0	26.5	24.0	29.5	24.0	26.0	21.0
12	19.5	11.0	25.0	17.0	26.5	22.0	26.5	23.0	31.5	23.5	25.5	22.0
13	17.5	13.5	25.0	17.5	27.0	22.0	30.5	22.0	29.5	23.5	26.5	22.5
14	18.0	15.0	25.0	17.5	28.5	21.5	27.0	23.0	27.5	24.0	29.5	22.5
15	21.0	15.5	24.0	18.5	29.5	21.0	29.0	23.0	29.0	23.0	29.5	22.5
16	21.5	17.0	25.5	18.0	29.5	22.0	26.5	23.0	28.5	23.0	30.0	22.0
17	19.0	17.5	24.0	18.5	26.0	22.5	28.5	22.5	25.5	23.0	28.5	22.5
18	20.0	15.5	25.0	18.5	29.0	21.0	27.5	23.5	25.5	23.0	29.5	23.0
19	17.0	14.5	23.5	19.5	30.0	21.0	28.5	23.0	26.0	22.5	29.5	22.0
20	15.0	13.5	24.5	18.5	29.5	22.0	30.0	23.0	28.0	22.0	28.0	21.0
21	16.0	14.5	24.5	19.0	27.0	21.5	32.0	23.5	29.5	23.0	26.0	19.0
22	15.5	14.0	25.5	20.0	29.5	23.0	33.0	24.5	29.5	22.5	24.5	16.0
23	17.0	13.0	23.0	20.0	30.5	22.0	28.0	23.5	30.0	22.5	23.5	13.5
24	17.0	13.0	24.5	19.5	30.5	21.5	27.0	24.0	30.5	23.0	22.5	13.5
25	15.5	14.5	24.5	19.5	28.0	21.5	30.5	24.0	31.5	24.0	23.5	15.5
26	16.5	14.5	24.0	20.5	29.0	21.5	32.0	24.0	31.5	24.0	23.0	16.0
27	18.0	15.5	25.5	20.5	25.5	22.5	31.5	24.5	31.5	23.0	23.0	15.0
28	19.0	15.0	28.5	21.0	28.5	23.0	32.5	25.0	30.5	24.0	24.5	16.0
29	18.5	15.5	28.5	22.0	26.5	22.5	32.0	25.0	30.0	23.0	24.0	16.5
30	20.0	15.0	29.5	22.0	29.0	22.5	27.5	24.5	29.5	23.0	24.5	16.0
31	---	---	29.5	22.5	---	---	25.0	24.0	31.0	22.5	---	---
MONTH	21.5	10.0	29.5	14.0	30.5	19.0	33.0	22.0	31.5	22.0	30.5	13.5
YEAR	33.0	.5										

02339225 WEHADKEE CREEK BELOW ROCK MILLS, ALA.

LOCATION.--Lat 33°07'20", long 85°14'57", Randolph County, Hydrologic Unit 03130002, on left bank 50 ft (15 m) downstream of bridge on county road, 0.7 mi (1.1 km) downstream from Little Wehadkee Creek, 2.1 mi (3.4 km) upstream from Guss Creek, and 3.5 mi (5.6 km) southeast of Rock Mills.

DRAINAGE AREA.--60.2 mi^2 (156 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1978 to current year.

GAGE.--Water-stage recorder. Datum of gage is 647.21 ft (197.270 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except for those of no gage height record July 13-27 and Aug. 24-30, which are fair. Some diurnal fluctuation at low flow.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,390 ft^3/s (209 m^3/s) Feb. 3, 1982, gage height, 14.42 ft (4.395 m); minimum daily discharge, 2.4 ft^3/s (0.068 m^3/s) Oct. 3, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,000 ft^3/s (28.3 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 3	1100	*7390	209	14.42	4.395	Apr. 26	0100	1290	36.5	9.24	2.816
Apr. 20	1645	1920	54.4	10.44	3.182						

Minimum daily discharge, 2.4 ft^3/s (0.068 m^3/s) Oct. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	13	63	260	104	121	63	116	80	37	151	22
2	2.5	13	64	102	159	109	60	108	64	35	185	25
3	2.4	14	32	134	4150	101	75	100	54	33	71	72
4	2.6	17	24	454	931	97	68	91	443	31	55	33
5	2.8	23	21	178	352	93	104	85	234	40	48	26
6	2.9	18	20	106	287	93	109	80	108	50	46	24
7	2.5	15	19	94	217	168	79	78	81	40	43	23
8	2.8	14	19	92	182	120	76	182	69	35	48	22
9	4.0	14	18	72	334	103	77	101	61	32	119	21
10	35	15	17	61	378	97	67	81	55	30	64	22
11	37	15	17	53	217	93	63	73	50	29	50	28
12	16	15	18	51	178	90	60	69	48	40	45	28
13	11	14	17	84	164	87	59	63	119	35	40	29
14	9.7	18	32	91	138	84	59	60	66	33	54	32
15	8.6	15	46	76	141	82	61	58	53	40	41	26
16	8.4	15	34	97	192	92	58	61	50	60	38	25
17	8.4	16	27	98	364	83	58	105	46	65	50	22
18	9.6	16	24	79	197	80	78	70	42	45	52	29
19	7.6	15	21	78	153	76	74	62	40	70	44	25
20	7.3	17	21	80	132	74	1130	60	38	54	37	21
21	7.5	17	22	74	121	72	424	71	37	45	34	20
22	8.1	16	25	72	110	77	193	59	50	90	32	18
23	12	16	26	142	103	71	138	110	45	130	30	18
24	15	19	26	189	98	74	115	86	40	110	29	17
25	17	18	172	114	93	76	490	72	36	80	28	18
26	26	17	97	90	90	69	746	300	35	50	27	19
27	24	17	65	77	176	63	327	188	70	35	26	19
28	18	20	71	70	156	61	207	91	50	32	25	18
29	16	18	120	64	---	61	159	72	45	46	24	17
30	14	19	67	61	---	62	133	64	40	340	23	17
31	13	---	226	84	---	63	---	58	---	121	23	---
TOTAL	354.5	489	1471	3377	9917	2692	5410	2874	2249	1913	1582	736
MEAN	11.4	16.3	47.5	109	354	86.8	180	92.7	75.0	61.7	51.0	24.5
MAX	37	23	226	454	4150	168	1130	300	443	340	185	72
MIN	2.4	13	17	51	90	61	58	58	35	29	23	17
CFSM	.19	.27	.79	1.81	5.88	1.44	2.99	1.54	1.25	1.03	.85	.41
IN.	.22	.30	.91	2.09	6.13	1.66	3.34	1.78	1.39	1.18	.98	.45

CAL YR 1981 TOTAL 20670.2 MEAN 56.6 MAX 1760 MIN 2.4 CFSM .94 IN 12.77
WTR YR 1982 TOTAL 33064.5 MEAN 90.6 MAX 4150 MIN 2.4 CFSM 1.51 IN 20.43

02339225 WEHADKEE CREEK BELOW ROCK MILLS, ALA.--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: December 1978 to September 1982 (discontinued).
INSTRUMENTATION.--Water-temperature recorder since December 1978.
REMARKS.--No daily water-temperature record collected Dec. 20 to Feb. 11, June 17 to July 26.
EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 29.0°C July 12, 13, 1980; minimum, 0.0°C Jan. 11-14, 18, 1981.
EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum recorded, 26.5°C July 27-29; minimum recorded, 1.5°C Dec. 19.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	19.5	16.5	16.0	14.5	13.0	10.5			---	---	10.0	7.5
2	20.5	17.0	17.5	15.5	12.0	10.0			---	---	11.5	7.0
3	17.0	13.5	17.5	16.0	10.0	7.5			---	---	12.0	8.0
4	16.5	12.5	18.0	16.5	9.5	7.5			---	---	14.0	9.5
5	17.0	13.0	18.0	16.0	8.0	6.0			---	---	16.0	12.0
6	18.0	14.5	17.0	14.5	7.0	5.0			---	---	16.5	14.5
7	18.5	17.0	14.0	12.0	7.5	4.5			---	---	14.5	10.0
8	17.0	15.5	13.0	10.0	9.0	6.5			---	---	11.0	7.5
9	15.5	14.5	12.5	10.0	7.5	6.0			---	---	12.0	7.5
10	16.0	15.5	13.5	12.5	5.5	4.0			---	---	13.5	9.0
11	16.5	15.5	13.5	11.0	5.0	3.5			---	---	15.0	11.0
12	17.0	14.5	12.5	9.5	6.0	5.0			8.5	8.0	16.0	12.0
13	16.5	15.0	11.5	9.0	6.0	6.0			9.0	7.5	17.0	13.5
14	16.0	13.5	10.5	8.0	7.0	6.0			9.5	6.0	19.0	15.5
15	17.0	15.0	10.5	7.5	7.0	6.0			9.5	8.0	19.0	16.5
16	17.5	14.5	11.5	9.5	5.5	4.0			12.5	10.0	19.5	17.0
17	18.0	15.5	12.0	10.0	5.5	4.0			14.0	12.5	19.0	18.0
18	18.5	16.0	10.5	8.0	5.5	3.0			14.0	12.0	21.5	17.5
19	15.5	13.0	12.5	8.5	3.0	1.5			14.5	12.5	22.0	17.5
20	13.5	10.0	12.5	9.0	---	---			13.5	10.0	21.5	18.5
21	13.5	10.0	8.5	6.5	---	---			13.0	9.5	21.0	18.5
22	15.5	12.0	8.0	5.5	---	---			12.5	9.5	18.5	15.5
23	15.0	13.0	8.5	5.5	---	---			13.0	8.5	17.0	13.0
24	13.0	11.5	10.5	8.5	---	---			14.0	9.5	15.5	14.5
25	12.0	11.0	9.0	7.0	---	---			13.5	11.5	18.0	15.0
26	13.5	11.5	9.5	6.5	---	---			11.5	8.0	16.5	13.0
27	14.0	13.0	12.5	9.0	---	---			7.5	6.5	13.5	11.0
28	14.0	11.5	13.0	11.0	---	---			8.0	6.5	12.5	9.0
29	15.0	12.5	10.5	9.5	---	---			---	---	11.5	10.5
30	15.0	13.0	10.5	10.5	---	---			---	---	15.5	11.0
31	15.5	14.5	---	---	---	---			---	---	17.0	14.0
MONTH	20.5	10.0	18.0	5.5	13.0	1.5			14.5	6.0	22.0	7.0

02339225 WEHADKEE CREEK BELOW ROCK MILLS, ALA.--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	19.0	14.5	18.0	14.5	24.5	22.0	---	---	24.0	23.0	25.0	23.0
2	17.5	16.0	18.0	15.0	24.5	21.0	---	---	25.0	23.0	25.0	23.5
3	19.5	17.0	19.0	15.0	24.0	21.5	---	---	25.0	22.0	24.5	23.0
4	16.0	13.5	19.5	15.0	24.0	21.0	---	---	25.5	22.5	23.5	21.0
5	15.5	13.5	20.0	16.0	23.0	21.0	---	---	25.0	23.0	23.0	21.0
6	15.0	12.0	20.0	16.5	23.0	20.5	---	---	25.0	23.0	22.5	20.0
7	14.5	10.5	18.5	17.0	23.0	19.5	---	---	24.5	23.0	22.0	19.5
8	13.0	12.0	19.0	17.0	23.5	19.5	---	---	24.5	23.0	22.0	19.5
9	15.5	11.5	20.0	16.0	24.5	20.5	---	---	24.5	23.0	21.5	20.5
10	15.5	12.0	20.0	15.5	25.0	21.5	---	---	25.5	23.0	21.5	21.0
11	16.5	12.0	20.5	16.0	24.5	22.0	---	---	25.5	23.5	22.5	21.0
12	17.0	11.5	21.5	17.0	23.5	21.5	---	---	25.5	23.0	23.0	22.0
13	16.5	13.5	21.5	17.5	23.5	21.5	---	---	25.0	23.5	23.5	22.0
14	16.0	15.0	21.5	17.5	24.0	21.0	---	---	24.5	23.5	24.5	22.5
15	19.5	15.5	21.5	18.5	24.0	21.0	---	---	25.0	23.0	24.5	22.5
16	20.5	17.5	21.5	18.5	24.5	22.0	---	---	25.0	23.0	24.5	22.5
17	19.5	18.0	21.0	19.0	---	---	---	---	25.0	23.5	24.5	23.0
18	19.0	16.0	22.0	19.0	---	---	---	---	24.5	22.5	25.0	23.0
19	17.0	15.0	22.0	19.5	---	---	---	---	23.5	22.0	24.0	22.0
20	16.0	14.0	22.0	19.5	---	---	---	---	24.5	22.0	23.5	21.5
21	16.5	15.5	22.5	19.5	---	---	---	---	25.0	22.5	22.0	20.0
22	15.5	14.0	22.5	20.0	---	---	---	---	25.0	22.5	20.0	17.5
23	16.0	13.0	21.5	20.5	---	---	---	---	25.0	22.5	17.5	15.5
24	16.0	12.5	21.5	20.0	---	---	---	---	25.5	23.0	17.5	15.0
25	15.0	15.0	22.0	19.5	---	---	---	---	26.0	23.5	18.0	16.5
26	17.0	15.0	21.5	20.5	---	---	---	---	25.5	24.0	18.0	17.0
27	17.0	16.0	23.0	20.5	---	---	26.5	24.5	25.5	23.5	18.5	16.0
28	17.5	15.5	24.5	21.0	---	---	26.5	24.5	25.5	24.0	19.0	16.5
29	16.5	15.5	24.5	22.0	---	---	26.5	24.5	25.0	23.5	19.0	17.0
30	18.0	15.0	25.0	22.0	---	---	24.5	24.0	24.5	23.5	19.0	16.5
31	---	---	25.0	22.5	---	---	24.0	23.5	24.5	22.5	---	---
MONTH	20.5	10.5	25.0	14.5	25.0	19.5	26.5	23.5	26.0	22.0	25.0	15.0
YEAR	26.5	1.5										

02339500 CHATTAHOOCHEE RIVER AT WEST POINT, GA.

LOCATION.--Lat 32°53'10", long 85°10'56", Troup County, Hydrologic Unit 03130002, on right bank just downstream from Oseligee Creek at West Point, 1 mi (1.6 km) upstream from bridge on U.S. Highway 29, 2.5 mi (4.0 km) downstream from West Point Dam and at mile 198.9 (320.0 km).

DRAINAGE AREA.--3,550 mi^2 (9,190 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1896 to current year. Monthly discharge only for some periods, published in WSP 1304. Gage-height records collected at site 0.8 mi (1.3 km) downstream since 1899 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 682: 1920, drainage area. WSP 972: 1931-32. WSP 1504: 1912, 1916-17.

GAGE.--Water-stage recorder. Datum of gage is 551.67 ft (168.149 m) National Geodetic Vertical Datum of 1929. Prior to Oct. 20, 1912, nonrecording gage at site 0.8 mi (1.3 km) downstream at datum 2.83 ft (0.863 m) lower. Oct. 20, 1912, to Jan. 25, 1925, nonrecording gage at site 500 ft (152 m) upstream at present datum.

REMARKS.--Records good. Flow regulated by Lake Sidney Lanier since January 1956 and by West Point Lake since October 1974. (See "Lakes and Reservoirs in Apalachicola River Basin", stations 02334400 and 02339400.)

AVERAGE DISCHARGE.--86 years, 5,630 ft^3/s (159.4 m^3/s), 21.54 in/yr (547 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 134,000 ft^3/s (3,790 m^3/s) Dec. 10, 1919, gage height, 30.0 ft (9.14 m) at site then in use; 29.25 ft (8.92 m) at present site, from floodmarks, from rating curve extended above 80,000 ft^3/s (2,270 m^3/s) on basis of computation of peak flow over Langdale Dam; minimum, 224 ft^3/s (6.34 m^3/s) Sept. 12, 1925, gage height, 1.64 ft (0.500 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1827, that of Dec. 10, 1919. Flood in 1886 reached a stage of 25.6 ft (7.80 m) at former site and datum, from floodmark, by National Weather Service, discharge, 92,800 ft^3/s (2,620 m^3/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 28,600 ft^3/s (810 m^3/s) Feb. 3, gage height, 13.87 ft (4.228 m); minimum daily, 680 ft^3/s (19.3 m^3/s) Oct. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3750	704	2140	2560	4150	4880	2920	870	7550	4520	1050	4000
2	3650	3150	2170	1060	7320	3730	2900	840	7490	4450	6670	3990
3	747	3270	2200	1010	15700	4800	844	6710	7590	748	6650	3990
4	740	3600	2140	7830	26200	5000	854	6760	7730	720	6640	758
5	3800	5630	756	5850	23600	5110	2160	6710	763	4040	5490	743
6	3660	3300	750	7700	22900	1010	2320	6690	732	4040	5370	3970
7	3660	746	2080	9480	22600	944	3780	6790	3790	4070	780	3990
8	3770	710	2190	9840	17400	4730	2160	866	4570	4040	770	4010
9	3800	3370	2190	7770	17200	4730	2150	830	3790	4020	5490	4000
10	728	3380	2200	7550	17700	4640	876	3090	2450	731	5610	4010
11	720	3330	2140	8910	9900	4660	843	3140	697	758	5550	766
12	3670	3280	800	7690	9090	4630	5870	4230	690	5380	5590	763
13	3790	3340	792	7700	9250	850	5940	4090	690	3870	5580	6360
14	3780	749	2260	7960	9380	807	5950	2890	3760	3820	780	5670
15	3770	710	2280	7860	9570	5010	5940	727	3910	3880	750	5710
16	3830	3250	2310	6250	9840	5130	5160	718	3840	4080	5830	6200
17	729	3100	2100	6330	5580	5030	856	5670	3780	843	5920	5610
18	680	3270	2190	8340	5310	5020	945	4790	3810	776	5930	774
19	3160	3280	836	8440	9460	5000	5930	3180	718	5650	5920	751
20	3210	3260	822	7520	5370	847	9670	2980	700	5320	5920	5640
21	3200	789	2990	5510	5280	813	17200	2010	3580	3920	780	5680
22	3180	690	3070	5440	9670	6200	13700	730	3490	5660	740	5730
23	3180	4950	3220	1030	9960	6450	13600	732	3550	841	6270	5820
24	712	5150	941	1150	10100	6390	2390	3100	3510	778	6660	4110
25	698	2730	1090	4670	5660	6460	3910	3270	3550	766	7980	763
26	3190	786	1140	4540	5460	6450	14100	3320	715	4620	6410	731
27	3200	3010	966	4530	982	950	16400	5930	737	4700	6410	5290
28	3180	700	2220	4500	1080	804	11700	5800	4570	4660	770	5470
29	3180	701	2230	4550	---	2840	10900	1180	4490	4660	730	5390
30	3150	3160	2220	1000	---	2830	11500	1210	5270	4680	4070	5390
31	725	---	2430	990	---	2950	---	1210	---	858	3940	---
TOTAL	83239	78095	57863	175560	305712	119695	183468	101063	102512	101899	137050	116079
MEAN	2685	2603	1867	5663	10920	3861	6116	3260	3417	3287	4421	3869
MAX	3830	5630	3220	9840	26200	6460	17200	6790	7730	5660	7980	6360
MIN	680	690	750	990	982	804	843	718	690	720	730	731

CAL YR 1981 TOTAL 1214758 MEAN 3328 MAX 11200 MIN 680 MEAN† 2961 CFSM† 0.83 IN† 11.32
WTR YR 1982 TOTAL 1562235 MEAN 4280 MAX 26200 MIN 680 MEAN† 4889 CFSM† 1.38 IN† 18.69

† ADJUSTED FOR CHANGE IN CONTENTS IN LAKE SIDNEY LANIER AND WEST POINT LAKE.

02339500 CHATTAHOOCHEE RIVER AT WEST POINT, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.50	1.99	2.74	3.08	3.83	4.13	3.19	---	5.62	4.05	2.29	3.68
2	3.45	3.22	2.76	2.25	5.32	3.67	3.18	---	5.57	4.01	5.02	3.67
3	1.98	3.29	2.77	2.21	8.87	4.10	2.13	---	5.63	2.08	4.99	3.67
4	1.97	3.43	2.74	5.61	13.10	4.21	2.15	---	5.69	2.05	4.98	1.99
5	3.54	4.49	2.02	4.75	12.23	4.25	2.84	---	2.14	3.76	4.43	1.97
6	3.46	3.30	2.01	5.58	12.01	2.25	2.97	---	2.10	3.74	4.35	3.67
7	3.46	2.03	2.70	6.41	11.92	2.23	3.71	5.12	3.67	3.76	2.01	3.68
8	3.50	2.00	2.76	6.59	10.00	4.17	2.85	2.13	4.05	3.75	2.00	3.67
9	3.52	3.32	2.76	5.60	9.93	4.17	2.84	2.10	3.67	3.74	4.39	3.69
10	1.99	3.33	2.76	5.49	10.11	4.12	2.16	3.39	3.00	2.05	4.46	3.69
11	1.98	3.32	2.74	6.10	6.68	4.12	2.14	3.48	2.06	2.08	4.43	2.00
12	3.45	3.29	2.03	5.50	6.27	4.11	4.68	3.93	2.05	4.43	4.46	1.99
13	3.51	3.32	2.02	5.53	6.31	2.16	4.74	3.87	2.05	3.72	4.45	4.84
14	3.51	2.04	2.80	5.66	6.36	2.12	4.74	3.26	3.67	3.68	2.01	4.46
15	3.50	2.00	2.85	5.63	6.45	4.28	4.74	2.14	3.78	3.71	1.98	4.48
16	3.53	3.26	2.85	4.85	6.57	4.36	4.37	2.13	3.71	3.81	4.54	4.71
17	2.01	3.22	2.74	4.88	4.71	4.32	2.14	4.65	3.67	2.14	4.59	4.42
18	1.97	3.29	2.77	5.82	4.58	4.30	2.21	4.21	3.69	2.09	4.61	2.00
19	3.22	3.30	2.06	5.88	6.40	4.29	4.71	3.47	2.07	4.52	4.60	1.98
20	3.26	3.29	2.05	5.44	4.48	2.16	6.51	3.31	2.05	4.37	4.60	4.43
21	3.25	2.06	3.16	4.46	4.42	2.13	9.93	2.82	3.54	3.68	2.01	4.46
22	3.24	1.98	3.22	4.41	6.46	4.85	8.40	2.13	3.50	4.53	1.97	4.48
23	3.24	4.15	3.29	2.22	6.61	4.99	8.36	2.13	3.53	2.13	4.79	4.51
24	2.00	4.25	2.13	2.32	6.66	4.95	2.93	3.38	3.50	2.08	4.97	3.69
25	1.99	3.02	2.28	4.07	4.61	4.99	3.78	3.51	3.52	2.06	5.59	1.99
26	3.24	2.01	2.31	4.01	4.49	4.98	8.62	3.57	2.05	4.05	4.85	1.96
27	3.27	3.15	2.17	4.00	2.25	2.21	9.60	4.85	2.08	4.11	4.86	4.30
28	3.25	1.99	2.83	3.99	2.33	2.11	7.50	4.77	4.07	4.08	2.00	4.39
29	3.25	1.99	2.83	4.01	---	3.15	7.10	2.50	4.04	4.10	1.96	4.35
30	3.24	3.29	2.82	2.20	---	3.16	---	2.53	4.39	4.10	3.73	4.36
31	2.01	---	2.99	2.19	---	3.21	---	2.52	---	2.13	3.65	---
MEAN	2.98	2.95	2.61	4.54	6.93	3.69	---	---	3.47	3.37	3.86	3.57
MAX	3.54	4.49	3.29	6.59	13.10	4.99	---	---	5.69	4.53	5.59	4.84
MIN	1.97	1.98	2.01	2.19	2.25	2.11	---	---	2.05	2.05	1.96	1.96

02339500 CHATTAHOOCHEE RIVER AT WEST POINT, GA.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1968 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	TEMPER-ATURE, AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT										
07...	1100	740	88	87	7.0	6.9	22.0	24.0	6.6	76
NOV										
04...	1230	710	81	81	7.2	7.2	18.0	24.0	6.7	71
DEC										
07...	1115	750	72	77	7.0	6.9	11.5	16.0	9.2	85
JAN										
07...	1015	14400	74	76	6.8	7.0	8.0	15.5	10.3	88
FEB										
09...	1045	17200	50	51	7.0	6.7	6.5	12.0	10.0	82
MAR										
10...	1345	1170	49	49	6.7	6.9	11.5	22.5	9.6	89
APR										
08...	0845	840	--	83	7.1	7.2	14.0	12.0	8.4	83
MAY										
06...	0600	858	63	62	7.3	7.1	17.0	16.0	8.2	86
JUN										
08...	1030	700	66	64	--	7.1	23.5	27.0	7.2	85
30...	1100	740	--	67	7.0	7.3	23.5	30.0	7.5	89
AUG										
11...	1100	803	--	78	7.0	7.1	24.0	26.0	7.8	94
SEP										
08...	1145	710	83	81	7.2	7.2	26.5	32.0	6.0	75

DATE	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)
OCT										
07...	3	1.2	40	17	.58	.080	<.020	1.0	120	80
NOV										
04...	4	2.1	40	19	.43	.090	.040	2.5	560	60
DEC										
07...	5	1.4	70	18	.60	.080	.050	2.4	560	<50
JAN										
07...	16	1.7	750	13	.98	.140	.040	1.0	300	80
FEB										
09...	76	1.[illegible]	790	11	.35	.200	.140	4.0	570	230
MAR										
10...	12	1.2	140	18	.16	.060	.020	<1.0	940	130
APR										
08...	9	.5	700	20	.18	.100	.020	<1.0	1200	110
MAY										
06...	7	.4	70	20	.28	.060	.020	3.0	740	110
JUN										
08...	9	.9	130	21	.19	.130	.040	3.0	610	140
30...	5	.7	170	22	.09	.120	.020	1.0	510	180
AUG										
11...	7	1.1	220	23	.14	.210	.020	--	3200	690
SEP										
08...	5	1.1	110	22	.08	.420	.020	3.0	720	220

02339500 CHATTAHOOCHEE RIVER AT WEST POINT, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
NOV				
10...	1620	710	2	3.8
10...	1625	710	2	3.8
FEB				
02...	1945	17200	29	1350
02...	1950	17200	28	1300
MAR				
16...	1650	928	20	50
16...	1655	928	15	38
JUN				
08...	1300	700	19	36
08...	1305	700	18	34
JUL				
28...	0845	740	11	22
28...	0850	740	10	20
AUG				
31...	0930	731	4	7.9
31...	0935	731	6	12

02339550 CHATTAHOOCHEE RIVER AT LANETT, ALA.

LOCATION.--Lat 32°51'48", long 85°11'04", Chambers County, Ala.-Harris County, Ga., Hydrologic Unit 03130002, at city of Lanett water intake, 0.5 mi (0.8 km) south of Lanett, and 2.4 mi (3.9 km) upstream of Long Cane Creek.
DRAINAGE AREA.--3,550 mi² (9,190 km²), approximately.
PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: December 1978 to September 1982 (discontinued).
INSTRUMENTATION.--Water-temperature recorder since December 1978.
REMARKS.--No daily water-temperature record collected May 28 to July 27.
EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum recorded, 31.0°C Aug. 9, 1980, July 26, 1981; minimum, 3.0° Jan. 15, 17, 1982.
EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum recorded, 29.5°C Aug. 29; minimum, 3.0°C Jan. 15, 17.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	24.5	22.5	18.0	16.0	14.5	13.0	8.0	7.0	8.0	6.0	10.0	8.0
2	24.5	22.5	18.5	17.0	14.0	12.5	8.5	7.0	7.5	6.5	11.5	8.5
3	23.0	21.0	18.0	17.0	13.0	11.5	10.5	8.5	7.5	6.5	11.0	9.0
4	23.0	21.0	18.0	17.0	13.0	11.5	11.5	9.0	7.0	7.0	12.0	9.5
5	23.5	21.0	18.0	17.0	12.0	11.0	10.5	8.0	7.5	7.0	12.5	10.0
6	24.0	21.5	18.5	17.0	11.5	10.5	8.0	7.0	8.0	7.5	13.5	10.5
7	22.5	21.5	17.5	16.0	12.0	10.0	8.5	8.0	7.5	7.5	13.0	11.0
8	22.0	21.0	17.5	15.5	13.0	11.0	9.5	8.5	7.5	7.5	12.0	10.0
9	21.5	21.0	17.0	15.5	11.5	10.5	8.5	7.5	7.5	7.5	12.0	9.5
10	21.5	20.0	16.5	16.0	11.0	9.5	8.0	6.0	7.5	7.5	12.0	10.0
11	20.5	20.0	17.0	15.5	10.5	9.0	7.0	4.0	8.0	7.5	12.5	10.5
12	21.5	19.5	16.5	15.0	10.0	9.5	6.5	4.0	8.0	7.5	13.5	11.0
13	21.0	19.5	16.0	14.5	9.5	9.0	6.5	4.5	8.0	7.5	14.0	11.5
14	21.0	19.0	16.0	14.5	10.0	9.5	6.0	3.5	8.0	7.0	15.0	13.0
15	21.0	19.5	16.0	14.0	9.5	8.5	5.5	3.0	8.0	7.5	14.5	11.0
16	21.5	19.0	16.0	14.5	10.0	7.5	6.0	4.0	8.5	8.0	15.5	11.5
17	21.5	19.5	16.0	14.5	9.5	8.0	5.5	3.0	10.0	8.5	14.5	12.0
18	21.0	19.0	15.5	14.0	9.5	7.5	5.5	3.5	10.5	9.0	16.0	13.0
19	19.5	18.0	16.0	14.0	8.0	6.0	5.5	4.5	11.0	9.0	16.5	12.5
20	19.5	17.5	15.5	14.0	7.5	5.5	6.5	5.5	11.0	9.0	17.5	13.5
21	19.5	17.5	14.5	13.0	8.0	5.5	7.0	5.5	11.0	9.0	17.5	15.5
22	20.0	18.0	13.5	12.0	9.5	7.5	7.5	6.0	11.0	9.5	16.0	14.0
23	19.0	18.5	14.0	12.0	9.5	8.0	8.0	6.5	10.5	9.5	16.5	14.0
24	18.0	16.0	14.0	13.0	8.0	7.5	8.0	6.5	10.5	9.5	15.5	14.0
25	16.5	16.0	13.5	12.0	8.0	7.5	7.5	5.5	12.0	10.0	16.0	14.5
26	17.5	16.0	13.5	12.0	8.0	7.5	6.5	5.0	11.0	10.0	17.0	13.5
27	17.5	16.5	14.5	13.5	9.0	8.0	6.5	4.5	10.0	8.0	16.0	13.5
28	18.0	16.0	14.5	13.5	9.0	8.0	6.0	4.5	8.0	7.5	14.5	13.0
29	18.0	16.0	13.0	12.5	9.5	8.0	7.0	5.5	---	---	14.5	13.0
30	18.0	16.0	13.5	13.0	8.5	7.5	8.5	6.0	---	---	16.5	13.5
31	17.5	16.5	---	---	8.0	7.0	9.0	7.5	---	---	16.0	14.0
MONTH	24.5	16.0	18.5	12.0	14.5	5.5	11.5	3.0	12.0	6.0	17.5	8.0

02339550 CHATTAHOOCHEE RIVER AT LANETT, ALA.--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	17.5	14.0	20.0	17.0			---	---	26.0	25.0	28.0	26.0
2	17.0	14.0	20.5	18.0			---	---	26.0	24.5	27.5	26.0
3	17.5	14.5	19.0	17.5			---	---	26.5	24.5	28.0	26.0
4	16.5	14.5	19.5	17.5			---	---	27.5	25.5	28.0	25.0
5	15.5	15.0	19.5	17.5			---	---	26.5	25.5	27.5	25.5
6	16.0	14.0	19.5	17.5			---	---	27.5	25.0	27.0	25.5
7	16.0	13.0	18.5	17.5			---	---	28.0	25.5	27.0	25.0
8	15.0	14.0	19.5	17.5			---	---	28.5	26.0	27.0	25.0
9	16.5	13.5	21.5	18.5			---	---	27.5	26.0	26.5	25.0
10	16.5	14.0	22.0	18.5			---	---	27.0	25.0	26.0	25.0
11	17.5	14.5	21.5	17.5			---	---	27.0	25.5	26.5	25.0
12	16.0	14.5	22.0	18.0			---	---	27.0	25.5	26.5	25.5
13	16.0	14.5	21.0	18.5			---	---	27.5	25.5	25.5	25.0
14	16.0	15.0	22.0	18.0			---	---	27.5	25.5	26.5	25.0
15	16.5	15.5	22.0	18.0			---	---	28.5	26.0	27.0	25.0
16	17.0	15.5	23.0	20.5			---	---	27.5	26.5	26.5	25.0
17	18.0	15.5	22.5	19.0			---	---	27.0	26.0	27.5	25.5
18	19.5	16.0	22.0	18.5			---	---	27.0	25.0	27.5	25.0
19	18.5	15.5	22.0	18.5			---	---	27.0	25.0	27.5	25.5
20	16.0	15.5	22.0	18.5			---	---	27.5	25.5	26.5	25.0
21	17.0	16.0	22.5	19.0			---	---	28.5	25.5	26.5	24.5
22	17.0	16.5	23.5	19.5			---	---	28.5	26.5	25.5	23.5
23	17.0	16.0	23.5	22.0			---	---	28.0	27.0	25.0	23.0
24	18.5	16.0	23.0	19.5			---	---	27.5	26.0	25.0	22.5
25	17.5	16.0	23.0	19.0			---	---	27.5	26.0	24.5	23.0
26	17.0	16.0	20.5	19.0			---	---	28.0	26.0	24.5	22.5
27	17.5	17.0	20.0	19.0			---	---	28.0	26.5	24.5	22.0
28	18.5	17.5	---	---			28.0	25.0	29.0	26.5	24.5	22.5
29	18.0	17.5	---	---			27.5	25.0	29.5	27.5	24.5	22.5
30	18.0	17.0	---	---			26.0	25.0	28.0	26.5	24.5	22.5
31	---	---	---	---			26.0	25.0	28.0	25.5	---	---
MONTH	19.5	13.0	23.5	17.0			28.0	25.0	29.5	24.5	28.0	22.0
YEAR	29.5	3.0										

02339720 LONG CANE CREEK NEAR WEST POINT, GA.

LOCATION.--Lat 32°54'37", long 85°08'43", Troup County, Hydrologic Unit 03130002, at bridge on Webb Road 2.5 mi (4.0 km) northeast of West Point.
DRAINAGE AREA.--74.8 mi2 (194 km2), approximately.
PERIOD OF RECORD.--July 1974 to current year.
REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE (DEG C)	TEMPERATURE, AIR (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT										
07...	0945	11	762	730	7.2	7.2	18.0	22.0	1.7	18
NOV										
04...	1145	18	487	477	7.1	7.2	17.5	25.5	1.4	15
DEC										
07...	1015	23	292	300	6.8	7.1	6.0	11.5	5.2	42
JAN										
07...	0915	190	--	110	6.5	6.6	9.5	19.5	7.2	63
FEB										
09...	0945	165	74	73	6.8	6.8	8.5	11.5	8.8	76
MAR										
10...	1430	132	120	118	6.7	6.7	13.0	24.0	8.5	81
APR										
08...	0945	100	142	148	6.9	7.1	13.0	13.0	6.6	63
MAY										
06...	0715	70	180	182	6.8	7.0	18.0	16.0	4.7	51
JUN										
08...	0945	30	311	300	--	7.0	21.0	31.5	2.6	29
30...	1000	50	--	190	7.0	7.1	22.0	30.0	4.4	51
AUG										
11...	1030	47	184	183	6.9	7.1	24.0	25.5	4.0	48
SEP										
08...	1045	20	224	217	7.1	7.1	21.0	31.5	2.3	26

DATE	TURBIDITY (JTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	ALKALINITY LAB (MG/L AS CACO3)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT								
07...	6	5.5	2300	101	.04	6.16	5.70	17
NOV								
04...	5	4.3	930	74	.03	3.25	2.90	15
DEC								
07...	12	6.7	15000	58	.16	2.04	1.50	17
JAN								
07...	32	2.9	230	15	.44	.200	.420	5.0
FEB								
09...	18	1.0	90	17	.35	.140	.160	6.0
MAR								
10...	18	2.5	80	22	.34	.230	.300	6.0
APR								
08...	15	2.5	1000	30	.43	.370	.480	8.0
MAY								
06...	12	2.7	490	33	.54	.260	.600	6.0
JUN								
08...	12	4.1	2300	55	.45	1.15	.980	12
30...	12	5.5	460	37	.38	.580	.800	9.0
AUG								
11...	10	2.2	230	41	.95	.340	.500	--
SEP								
08...	8	2.6	130	50	1.1	.500	.750	6.5

02341500 CHATTAHOOCHEE RIVER AT COLUMBUS, GA.

LOCATION.--Lat 32°27'45", long 84°59'52", Muscogee County, Ga.-Russell County, Ala., Hydrologic Unit 03130003, on downstream side of center pier of Central of Georgia railway bridge at Columbus, 0.5 mi (0.8 km) downstream from Eagle and Phenix Dam, 1.2 mi (1.9 km) downstream from City Mills Dam, 2.6 mi (4.2 km) downstream from North Highlands Dam, 3.3 mi (5.3 km) downstream from Oliver Dam, 17.5 mi (28.2 km) downstream from Bartletts Ferry Dam, and at mile 159.9 (257.3 km).

DRAINAGE AREA.--4,670 mi^2 (12,100 km^2), approximately.

PERIOD OF RECORD.--August 1929 to current year. Records for December 1912, published in WSP 322, have been found to be unreliable and should not be used.

REVISED RECORDS.--WSP 1082: 1943(M). See also period of record.

GAGE.--Water-stage recorder. Datum of gage is 183.14 ft (55.821 m) National Geodetic Vertical Datum of 1929. Dec. 1-31, 1912, nonrecording gage at site 800 ft (243 m) upstream at datum 2.0 ft (0.61 m) higher, and Aug. 23, 1929, to Sept. 30, 1975, recording gage at present site, at datum 2.0 ft (0.61 m) higher. Oct. 1, 1963, to Sept. 30, 1966, water-stage recorder at Walter F. George Reservoir, and since Oct. 1, 1966, water-stage recorder at Alabama State Docks used as auxiliary gage for this station.

REMARKS.--Records good except those below 1,500 cfs, which are poor. Flow regulated by Lake Sidney Lanier since January 1956, West Point Lake since October 1974, and by Lake Harding since 1939. (See "Lakes and Reservoirs in Apalachicola River Basin", stations 02334400, 02339400, and 02341000.) Records of chemical analyses for the period February 1968 to May 1972 are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--53 years, 6,773 ft^3/s (191.8 m^3/s), 19.70 in/yr (500 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 145,000 ft^3/s (4,110 m^3/s) Feb. 26, 1961; maximum gage height, 47.8 ft (14.57 m) Feb. 25, 1961; minimum discharge, 294 ft^3/s (8.33 m^3/s) Oct. 23, Nov. 14, 1931; minimum daily, 480 ft^3/s (13.6 m^3/s) Oct. 31, 1931.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge known since at least 1827, 198,000 ft^3/s (5,610 m^3/s) Mar. 15, 1929, computation of flow at North Highlands Dam before redevelopment; maximum stage known, 53.2 ft (16.22 m) Mar. 16, 1929.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 54,000 ft^3/s (1,530 m^3/s) Feb. 4; maximum gage height, 26.23 ft (7.995 m) Feb. 4; minimum daily, 1,230 ft^3/s (34.8 m^3/s) Dec. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3700	1750	2810	7410	5740	7500	2410	9980	7270	5510	7630	6310
2	4750	3250	2440	4830	7190	5430	2510	3040	7730	6420	12000	6340
3	1830	2570	2770	6360	18800	4910	2450	6750	7070	2980	9940	5590
4	1730	3930	3040	10200	47600	6550	2000	8290	8010	2650	9560	3340
5	3820	4440	1760	9830	34100	6430	8120	8020	6330	4410	9770	3260
6	3870	3380	1690	10400	28800	2480	7900	8120	2710	6020	9100	4220
7	3640	1540	2770	10600	23600	7090	6130	7390	5560	4270	3800	6560
8	3390	1610	2460	13500	21300	7260	6060	6230	5680	5280	3510	6080
9	3600	3350	1900	11500	18400	5960	3440	2810	6030	5890	8270	5870
10	1840	3160	3390	11500	19500	5180	2750	3190	3700	3500	8770	6050
11	1910	3400	1230	6340	15100	7130	3170	6800	2850	3880	8480	4480
12	4080	4690	1600	8320	10500	7010	6690	6520	2350	6690	8620	2450
13	4750	1600	1480	9980	12500	3640	6870	7100	2320	7390	8310	7200
14	4440	1510	1940	11100	12500	2390	7430	3710	3280	6180	3860	7000
15	4270	1750	2160	10300	12400	6670	7300	2590	2930	5470	3970	7200
16	3670	3500	2790	8380	12600	7250	7070	2820	3550	6030	8090	6800
17	1830	3400	2110	7620	11400	7440	5520	6290	4470	3270	8230	7300
18	1490	3710	2070	7000	10800	6470	2160	6400	5030	2780	8870	3800
19	2800	3280	1450	10300	10500	7230	6660	5980	2410	6750	8730	2500
20	4900	3260	1550	9900	10000	4200	8220	3130	2330	7180	8520	6000
21	3720	1540	2550	10200	9000	2590	20000	4680	3680	8190	4010	6600
22	2790	1560	3040	6500	8800	6010	19500	2160	4170	6360	4120	6800
23	3500	4650	2800	2200	7900	6420	14800	2270	4790	7930	7780	7400
24	2650	5520	2580	3500	7000	6100	14100	4240	4410	6500	7490	7800
25	1970	1730	3650	4880	9400	7890	10200	4480	4290	5000	8630	7400
26	4200	1600	4840	7300	9260	7120	13200	4870	3170	6000	8320	2500
27	4040	1660	2970	6520	5280	4450	19400	4740	3190	5500	8380	7200
28	3280	1630	5380	6250	3090	2780	20700	7260	5940	6400	3960	8000
29	2860	1600	4280	5480	---	3400	15000	3750	5840	6500	3610	9000
30	3830	4460	4290	2100	---	3000	13400	2530	6770	5660	6190	8200
31	1590	---	7250	5640	---	4500	---	5860	---	6920	6690	---
TOTAL	100740	85030	87040	245940	403060	172480	265160	162000	137860	173510	227210	179250
MEAN	3250	2834	2808	7934	14400	5564	8839	5226	4595	5597	7329	5975
MAX	4900	5520	7250	13500	47600	7890	20700	9980	8010	8190	12000	9000
MIN	1490	1510	1230	2100	3090	2390	2000	2160	2320	2650	3510	2450

CAL YR 1981 TOTAL 1575280 MEAN 4316 MAX 45600 MIN 1130 MEAN† 3966 CFSM† 0.85 IN† 11.53
WTR YR 1982 TOTAL 2239280 MEAN 6135 MAX 47600 MIN 1230 MEAN† 6714 CFSM† 1.44 IN† 19.52

† ADJUSTED FOR CHANGE IN CONTENTS IN LAKE SIDNEY LANIER, WEST POINT LAKE, AND LAKE HARDING.

02341500 CHATTAHOOCHEE RIVER AT COLUMBUS, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.60	3.12	4.81	9.10	7.26	7.38	5.65	9.72	7.99	6.22	8.31	6.92
2	4.16	4.08	4.57	7.85	8.11	6.72	5.70	7.22	8.07	6.64	9.73	6.80
3	2.29	3.69	4.68	7.87	14.85	6.33	5.70	7.98	7.56	5.50	9.07	6.39
4	2.29	4.38	4.72	9.53	25.21	6.84	5.66	8.53	7.73	5.53	8.84	5.44
5	3.57	4.59	4.08	9.38	20.95	6.70	8.50	8.24	7.23	6.03	8.83	5.51
6	3.52	4.31	4.20	9.39	18.32	5.20	9.69	8.42	6.12	6.70	8.49	5.84
7	3.39	3.29	4.76	9.54	16.28	7.74	8.39	8.22	7.17	6.15	6.46	6.65
8	3.17	3.38	4.56	10.95	14.99	8.24	8.06	8.15	7.17	6.65	6.54	6.34
9	3.35	4.37	4.21	10.12	13.49	7.46	7.06	7.36	7.37	6.93	8.27	6.14
10	2.22	4.33	4.89	9.94	14.45	6.77	6.21	7.31	5.93	6.01	8.46	6.24
11	2.30	4.50	3.94	8.12	12.37	7.18	6.14	8.33	4.92	6.32	8.37	5.82
12	3.57	5.07	4.00	9.08	10.27	6.99	7.39	8.15	4.77	7.40	8.32	5.25
13	3.98	3.72	4.01	9.22	10.64	5.62	7.35	8.45	4.84	7.54	8.18	7.10
14	3.79	3.64	4.35	9.92	10.53	5.41	7.51	7.03	5.33	7.38	6.62	7.10
15	3.74	3.76	4.56	9.71	10.42	7.18	7.38	6.37	5.23	6.99	6.80	6.97
16	3.39	4.87	4.95	8.76	10.44	7.28	7.29	6.57	5.64	7.10	8.32	6.80
17	2.36	4.86	4.72	8.02	10.74	7.75	6.79	7.82	5.96	6.36	8.30	6.75
18	2.29	4.92	4.70	7.76	10.08	7.24	5.68	7.78	6.04	6.43	8.49	6.00
19	2.94	4.78	4.50	8.90	9.74	7.66	7.32	7.61	4.95	7.77	8.42	5.65
20	4.11	4.72	4.64	8.70	9.66	6.33	8.20	6.44	5.01	8.00	8.31	6.70
21	3.48	3.82	5.03	8.94	9.19	6.09	13.68	6.88	5.55	8.23	6.71	6.80
22	3.06	3.90	5.24	8.24	8.88	7.31	14.01	6.05	5.62	7.52	6.85	6.75
23	3.44	5.27	5.16	6.15	8.45	7.40	11.61	6.18	5.72	8.03	8.18	6.93
24	2.93	5.68	5.15	6.37	7.71	7.01	11.40	6.95	5.44	7.79	7.98	6.80
25	2.65	4.22	6.00	7.02	7.61	7.64	9.80	6.87	5.35	7.16	8.25	6.54
26	4.08	4.05	6.74	7.83	8.06	7.32	11.59	6.98	4.78	7.45	7.94	5.50
27	4.15	4.01	6.34	7.47	6.63	6.06	14.74	7.15	5.01	7.26	7.92	6.92
28	3.99	3.91	7.40	7.30	5.84	5.73	15.19	7.83	6.21	7.20	6.22	7.01
29	3.73	3.96	7.28	6.82	---	6.18	12.00	6.81	6.35	6.80	6.23	7.47
30	4.24	5.25	7.18	5.71	---	6.02	10.96	6.58	6.67	7.12	7.15	7.17
31	2.99	---	8.51	7.37	---	6.22	---	7.73	---	7.70	7.24	---
MEAN	3.32	4.28	5.16	8.42	11.47	6.81	8.89	7.47	6.06	6.96	7.86	6.48
MAX	4.24	5.68	8.51	10.95	25.21	8.24	15.19	9.72	8.07	8.23	9.73	7.47
MIN	2.22	3.12	3.94	5.71	5.84	5.20	5.65	6.05	4.77	5.50	6.22	5.25

WTR YR 1982 MEAN 6.90 MAX 25.21 MIN 2.22

02341800 UPATOI CREEK NEAR COLUMBUS, GA.

LOCATION.—Lat 32°24'48", long 84°49'12", Muscogee-Chattahoochee County line, Hydrologic Unit 03130003, at downstream side of pier near left end of bridge on Red Arrow Road at Fort Benning, 2 mi (3.2 km) downstream from Randall Creek, 2 mi (3.2 km) upstream from Ochillee Creek, 8 mi (12.9 km) southeast of Columbus, and 12 mi (19 km) upstream from mouth.
DRAINAGE AREA.—342 mi^2 (886 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—April 1968 to current year.
GAGE.—Water-stage recorder. Altitude of gage is 230 ft (70 m), from topographic map.
REMARKS.—Records good.
AVERAGE DISCHARGE.—14 years, 490 ft^3/s (13.88 m^3/s), 19.46 in/yr (494 mm/yr).
EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 17,300 ft^3/s (490 m^3/s) Apr. 1, 1981, gage height, 21.06 ft (6.419 m); minimum, 99 ft^3/s (2.80 m^3/s) July 19, 1981.
EXTREMES FOR CURRENT YEAR.—Peak discharges above base of 2,500 ft^3/s (70.8 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Dec. 25	1430	3000	85.0	9.21	2.807
Dec. 31	2145	3610	102	10.03	3.057
Feb. 3	1700	*6730	191	13.51	4.118
Apr. 5	2300	5000	142	11.57	3.527
Apr. 27	0415	4470	127	11.08	3.377
Aug. 2	0200	2750	77.9	8.78	2.676

Minimum discharge, 107 ft^3/s (3.03 m^3/s) Oct. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	111	152	278	2660	776	456	314	571	200	218	893	166
2	111	151	569	1390	696	424	297	506	213	176	1830	168
3	109	150	319	1150	4190	405	335	459	197	150	831	196
4	108	149	237	1230	3900	391	404	417	184	140	493	188
5	109	149	199	1180	1630	381	1710	381	188	138	368	174
6	110	148	188	908	1050	379	3710	356	182	142	372	168
7	110	146	181	889	830	1170	1810	341	168	152	344	162
8	110	143	178	1400	715	1190	1020	658	158	144	436	156
9	117	142	173	1000	694	767	851	633	152	140	421	152
10	157	160	168	796	856	607	681	453	146	180	371	162
11	168	196	165	663	737	539	576	363	142	232	331	184
12	147	179	165	608	644	501	505	317	146	227	294	190
13	128	160	160	686	718	473	461	292	211	211	305	180
14	120	152	225	1180	626	455	438	278	221	249	314	179
15	117	149	692	1080	568	443	428	260	180	384	345	194
16	116	148	579	869	629	427	500	252	158	402	284	174
17	115	149	369	754	1400	410	479	245	148	337	277	164
18	116	147	305	668	1210	401	494	326	156	389	398	160
19	120	146	265	632	833	389	441	350	154	591	319	164
20	118	152	231	614	658	374	859	331	144	729	283	163
21	116	153	214	592	581	366	1190	522	140	353	251	156
22	116	149	226	574	529	466	815	376	140	271	232	150
23	116	148	230	579	488	434	584	302	144	596	215	148
24	118	153	251	686	475	398	465	282	152	610	203	146
25	159	155	2010	618	457	414	534	272	142	383	198	146
26	345	152	1580	560	435	380	2150	278	148	290	195	148
27	349	151	1110	533	480	337	3250	286	168	243	184	160
28	259	162	1040	498	509	313	1490	257	197	226	176	162
29	194	166	1100	490	---	305	915	233	275	223	172	154
30	160	161	881	482	---	309	694	214	269	225	166	146
31	154	---	2080	528	---	307	---	200	---	416	166	---
TOTAL	4503	4618	16368	26497	27314	14611	28400	11011	5223	9167	11667	4960
MEAN	145	154	528	855	976	471	947	355	174	296	376	165
MAX	349	196	2080	2660	4190	1190	3710	658	275	729	1830	196
MIN	108	142	160	482	435	305	297	200	140	138	166	146
CFSM	.42	.45	1.54	2.50	2.85	1.38	2.77	1.04	.51	.87	1.10	.48
IN.	.49	.50	1.78	2.88	2.97	1.59	3.09	1.20	.57	1.00	1.27	.54

CAL YR 1981 TOTAL 133293 MEAN 365 MAX 10400 MIN 100 CFSM 1.07 IN 14.50
WTR YR 1982 TOTAL 164339 MEAN 450 MAX 4190 MIN 108 CFSM 1.32 IN 17.88

02341800 UPATOI CREEK NEAR COLUMBUS, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1977 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
OCT					
05...	1755	110	20.0	4	1.2
24...	1035	262	14.0	17	12
DEC					
03...	1320	309	11.5	36	30
JAN					
14...	1630	1280	.0	117	404
FEB					
25...	1235	457	12.0	29	36
APR					
01...	0935	322	15.0	21	18
06...	1110	3860	10.0	865	9020
15...	1745	426	20.0	50	58
MAY					
06...	0905	357	18.5	31	30
20...	0755	319	18.5	33	28
JUL					
30...	0905	207	23.0	19	11
SEP					
13...	1105	182	24.5	11	5.4

02343801 CHATTAHOOCHEE RIVER NEAR COLUMBIA, ALA.

LOCATION.--Lat 31°15'33", long 85°06'37", Early County, Ga.-Houston County, Ala., Hydrologic Unit 03130004, at left end of George W. Andrews Lock and Dam, 1.3 mi (2.1 km) downstream from Omusee Creek, 2.3 mi (3.7 km) south of Columbia, Ala., and at mile 46.5 (74.8 km).

DRAINAGE AREA.--8,210 mi^2 (21,260 km^2), approximately.

PERIOD OF RECORD.--October 1975 to current year.

GAGE.--Gate-opening and water-stage recorders. Datum of headwater gage and tailwater gages is National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for periods of missing headwater or gate record, July 5 to Aug. 31, which are fair. Flow regulated by Lake Sidney Lanier, West Point Lake, Lake Harding, Walter F. George Lake, and George W. Andrews Reservoir. (See "Lakes and Reservoirs in Apalachicola River Basin," stations 02334400, 02339400, 02341000, and 02343240. No adjustments made for George W. Andrews Reservoir's annual change in contents, which is insignificant.)

AVERAGE DISCHARGE.--7 years, 11,650 ft^3/s (329.9 m^3/s), 19.27 in/yr (489 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 131,000 ft^3/s (3,710 m^3/s), Jan. 27, 1978, maximum headwater gage height, 118.12 ft (36.003 m) Jan. 27, 1978, maximum tailwater gage height, 116.66 ft (35.558 m) Jan. 27, 1978; minimum daily discharge, 519 ft^3/s (14.7 m^3/s) June 13, 1982.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 1929, thought to be the highest since 1827, based on station on Chattahoochee River at Columbia, Ala., 2.4 mi (3.9 km) upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 71,100 ft^3/s (2,010 m^3/s) Feb. 4, maximum headwater gage height, 105.77 ft (32.239 m) Feb. 4, maximum tailwater gage height, 103.88 ft (31.663 m) Feb. 4; minimum daily discharge, 519 ft^3/s (14.7 m^3/s) June 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5970	897	4950	22100	10200	12500	5260	13900	11700	5000	6200	9320
2	5880	2230	5230	19900	14500	12900	4360	13300	11600	1350	15200	9580
3	1230	4020	5100	19900	40600	12800	1620	13600	11800	958	16400	9970
4	852	4100	4630	22800	68800	12600	917	13200	12000	1990	16300	1770
5	5260	3830	1510	22400	63100	12800	6790	10000	1410	3770	15800	1620
6	4720	4020	894	19900	57400	2830	14400	10400	906	3600	15900	7720
7	4590	1790	3300	21100	35000	7710	18900	12700	6350	2710	2270	7940
8	4700	895	3770	21800	26800	15000	6710	2310	4310	951	1070	7960
9	4440	2130	4460	20300	21600	21000	20200	9830	14700	12500	8890	5990
10	1590	3940	4410	14100	21800	20300	19500	9170	20000	1600	9840	6260
11	863	4070	4180	13700	21300	20300	4670	9230	9150	914	14000	1510
12	3230	3910	1280	13400	24600	14700	11600	9070	897	10200	12900	1280
13	4530	3750	880	14300	29900	2190	11900	11300	519	1420	12600	3880
14	4370	1570	3560	15700	22300	1410	12000	15400	881	10300	1730	9930
15	4370	873	3750	20900	22300	8400	11900	2340	896	9990	1120	6620
16	4380	2340	2930	20700	22300	9320	11900	1020	3290	7660	8280	12700
17	2080	3530	4640	19500	32700	12800	1520	9330	8090	2540	10200	4860
18	876	3860	4320	14200	26000	11600	979	9380	8050	1230	11000	863
19	2480	3550	924	13400	22100	11600	9480	9500	2680	8890	10900	779
20	3440	6940	889	13600	21200	975	11300	9750	1070	11600	11100	7400
21	3830	1710	3790	13600	21700	3010	21400	7750	7700	10200	1790	7910
22	3750	898	4220	13500	21700	12000	17200	1330	9380	12600	967	7790
23	3870	2850	4340	1670	21400	16400	16600	965	9480	13100	9750	7830
24	1980	4050	1940	1320	21000	15600	16400	8980	6260	3540	10700	5680
25	870	4130	1990	10400	15400	13800	16500	8100	5900	2340	13400	1180
26	2690	3990	951	10500	13800	12800	25500	7360	1360	11900	10200	864
27	4150	4070	964	10600	2000	1920	31500	7420	984	11800	10000	6260
28	4040	1670	6930	10300	1730	1230	36700	7140	4610	10700	1310	7410
29	3820	879	9960	10600	---	7230	32300	1180	9180	11200	965	7800
30	3930	3460	9510	1380	---	8000	22000	1040	5390	11200	7610	7580
31	1730	---	14800	988	---	7430	---	8950	---	2520	9530	---
TOTAL	104511	89952	125002	448558	723230	323155	422006	254945	190543	200273	277922	178256
MEAN	3371	2998	4032	14470	25830	10420	14070	8224	6351	6460	8965	5942
MAX	5970	6940	14800	22800	68800	21000	36700	15400	20000	13100	16400	12700
MIN	852	873	880	988	1730	975	917	965	519	914	965	779

CAL YR 1981 TOTAL 2361122 MEAN 6469 MAX 69600 MIN 841 MEAN† 6415 CFSM† 0.78 IN† 10.61
WTR YR 1982 TOTAL 3338353 MEAN 9146 MAX 68800 MIN 519 MEAN† 9910 CFSM† 1.21 IN† 16.39

† ADJUSTED FOR CHANGE IN CONTENTS IN LAKE SIDNEY LANIER, WEST POINT LAKE, LAKE HARDING, AND WALTER F. GEORGE LAKE.

02344040 CHATTAHOOCHEE RIVER NEAR STEAM MILL, GA.

LOCATION.--Lat 30°58'39", long 85°00'19", Seminole County, Ga.-Jackson County, Fla., Hydrologic Unit 03130004, at Herman E. Talmadge Bridge on State Highway 91, 2 mi (3 km) northwest of Steam Mill, and at mile 23.7 (38.1 km).

PERIOD OF RECORD.--August 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey. Flow regulated by Lake Sidney Lanier, West Point Lake, Lake Harding, Walter F. George Reservoir (See "Lakes and Reservoirs in Apalachicola River Basin", stations 02334400, 02339400, 02341000, 02343240.), and by George W. Andrews Reservoir.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE (DEG C)	TEMPERATURE, AIR (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT 07...	1050	--	117	7.4	7.2	22.0	25.5	8.6	100
NOV 03...	1340	--	112	7.4	7.6	17.0	27.0	9.9	103
DEC 14...	1410	--	122	7.1	7.2	9.5	20.5	9.3	82
JAN 27...	1235	--	96	6.6	7.0	8.5	7.5	11.4	97
FEB 09...	1325	--	76	6.6	7.0	10.5	25.5	11.1	101
MAR 09...	1340	--	65	--	7.0	12.0	22.0	9.3	86
APR 13...	1310	72	74	--	7.2	17.0	28.0	9.8	102
MAY 11...	1230	--	105	7.2	7.5	24.0	30.0	9.4	113
JUN 15...	1015	88	88	7.6	7.6	29.5	32.0	9.2	122
JUL 20...	1155	--	82	7.3	7.4	29.0	30.0	8.8	115
AUG 17...	1155	--	81	7.4	7.3	31.5	31.0	8.1	111
SEP 28...	1200	93	93	7.6	7.5	27.0	29.5	8.4	106

DATE	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	ALKALINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 07...	10	7	13	2.0	90	31	7	.18	.060	.30	.080	4.0
NOV 03...	10	8	13	1.7	<30	32	14	.17	<.020	.40	.040	4.0
DEC 14...	20	12	13	1.6	40	32	16	.24	.060	.30	.080	5.3
JAN 27...	50	19	18	1.3	80	20	6	.43	.100	.70	.040	10
FEB 09...	50	15	15	.9	110	16	14	.51	.110	.50	.060	5.0
MAR 09...	60	21	6	1.3	--	15	16	.44	.120	.50	.080	5.0
APR 13...	35	9	12	1.8	80	20	8	.31	.020	.50	.040	6.0
MAY 11...	30	6	12	1.3	50	32	3	.40	.040	.12	.030	5.0
JUN 15...	30	12	11	1.9	<20	26	25	.15	<.020	.70	.040	5.0
JUL 20...	60	21	--	5.2	170	23	15	.28	.060	--	.100	8.5
AUG 17...	40	11	--	1.3	330	24	13	.11	.020	--	.040	3.0
SEP 28...	10	6	--	2.0	20	27	3	.10	<.020	--	.040	6.0

02344180 FLINT RIVER NEAR JONESBORO, GA.

LOCATION.--Lat 33°32'14", long 84°22'35", Clayton County, Hydrologic Unit 03130005, at bridge on State Highway 138, 0.8 mi (1.3 km) west of U.S. Highway 41, and 1.5 mi (2.4 km) northwest of Jonesboro, and at mile 338.1 (544.0 km).
DRAINAGE AREA.--39.1 mi^2 (62.9 km^2).
PERIOD OF RECORD.--July 1975 to current year.
REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE (DEG C)	TEMPERATURE, AIR (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT										
05...	1230	13	332	333	7.0	6.9	15.5	27.5	5.0	51
NOV										
03...	1245	23	235	236	6.9	7.2	16.0	24.5	4.3	44
DEC										
08...	1215	23	--	226	7.1	7.1	9.0	18.0	6.9	61
JAN										
05...	1405	100	103	108	6.7	6.8	6.5	14.0	8.9	73
FEB										
02...	0810	51	--	152	6.9	7.0	8.0	5.0	6.8	58
MAR										
09...	1615	58	154	150	6.8	7.0	19.0	10.5	6.8	--
APR										
07...	0730	64	--	146	6.8	6.9	9.0	.0	6.2	60
MAY										
05...	1020	34	190	190	7.1	7.0	18.0	27.0	3.6	39
JUN										
09...	0800	23	205	214	--	7.0	22.5	27.0	4.6	54
30...	1510	17	--	154	6.9	7.1	23.0	33.0	5.0	59
AUG										
11...	1450	48	122	126	6.8	6.8	25.0	30.0	4.8	59
SEP										
09...	1445	17	240	241	7.0	7.0	21.5	26.0	3.2	37

DATE	TURBIDITY (JTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	ALKALINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT										
05...	10	2.4	930	43	6	224	5.7	.640	1.65	9.0
NOV										
03...	8	2.1	430	39	5	172	3.2	.170	1.20	7.5
DEC										
08...	13	2.1	150	53	5	144	.78	3.12	.690	6.0
JAN										
05...	33	2.1	230	20	18	116	.90	.660	.160	4.0
FEB										
02...	20	6.5	2800	39	17	128	.30	2.00	.500	13
MAR										
09...	15	2.7	3100	40	10	112	.59	1.93	.320	5.0
APR										
07...	21	4.7	310000	33	20	128	1.2	.830	.720	8.0
MAY										
05...	11	2.7	79000	42	15	142	1.6	1.46	.660	6.0
JUN										
09...	17	3.7	3100	46	13	156	1.4	1.37	.740	6.0
30...	17	1.4	4900	32	10	132	1.3	.200	.400	4.0
AUG										
11...	40	4.7	180000	29	31	136	.99	.410	.320	--
SEP										
09...	9	2.9	1700000	40	17	188	4.1	.200	1.03	5.0

02344190 FLINT RIVER NEAR FAYETTEVILLE, GA.

LOCATION.--Lat 33°29'13", long 84°23'44", Fayette-Clayton County line, Hydrologic Unit 03130005, at bridge on State Highway 54, 200 ft (60 m) east of Thomas Road, 0.2 mi (0.3 km) upstream from Camp Creek, and 4.4 mi (7.1 km) northeast of Fayetteville, and at mile 333.7 (536.9 km).

DRAINAGE AREA.--49 mi^2 (79 km^2).

PERIOD OF RECORD.--July 1975 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	TEMPER-ATURE, AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT										
05...	1330	29	383	379	7.1	7.1	19.5	31.0	7.6	84
NOV										
03...	1330	37	336	343	7.1	7.1	18.0	25.5	6.1	66
DEC										
08...	1315	44	289	305	7.1	7.0	12.0	19.0	7.6	72
JAN										
05...	1445	230	63	66	6.6	6.6	7.5	14.5	8.8	74
FEB										
02...	0840	86	--	122	6.7	7.0	8.0	4.0	7.0	60
MAR										
09...	1515	105	--	160	6.9	7.1	11.5	18.0	8.6	--
APR										
07...	0825	130	--	132	6.8	5.8	4.0	9.0	7.7	59
MAY										
05...	1100	32	155	159	7.0	7.0	17.5	28.0	5.5	59
JUN										
09...	0900	30	235	239	--	7.1	22.0	27.5	6.3	73
30...	1430	145	--	179	6.8	7.1	23.0	33.0	6.6	78
AUG										
11...	1415	36	--	129	6.9	7.0	25.0	29.0	6.5	80
SEP										
09...	1400	17	194	191	7.2	7.1	21.0	28.0	5.8	65

DATE	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT										
05...	6	1.4	90	57	9	260	2.8	.820	3.95	10
NOV										
03...	6	2.5	90	54	13	232	2.1	.240	3.80	10
DEC										
08...	12	2.5	430	49	17	220	2.5	1.60	.800	16
JAN										
05...	72	1.3	2100	11	26	116	.66	.100	.180	4.0
FEB										
02...	24	1.5	330	25	13	108	.82	.840	.450	7.0
MAR										
09...	15	1.3	80	31	5	132	1.9	1.00	1.27	5.0
APR										
07...	22	1.0	310	26	13	116	1.0	.530	.780	7.0
MAY										
05...	11	1.3	3300	32	12	128	1.9	.100	.330	6.0
JUN										
09...	15	2.3	220	51	11	180	1.9	1.18	2.24	7.0
30...	22	.6	490	34	9	144	.90	.700	1.48	12
AUG										
11...	24	1.2	2300	26	13	120	1.7	.140	.300	--
SEP										
09...	6	.7	270	34	8	148	3.2	.040	.480	4.0

02344380 FLINT RIVER NEAR INMAN, GA.

LOCATION.--Lat 33°23'08", long 84°23'24", Fayette-Clayton County line, Hydrologic Unit 03130005, at bridge on Ackert Road, 0.6 mi (1.0 km) downstream from Gay Creek, and 1.4 mi (2.2 km) east of State Highway 92 at Inman, and at mile 322.3 (518.6 km).
DRAINAGE AREA.--158 mi^2 (254 km^2).
PERIOD OF RECORD.--July 1975 to current year.
REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE (DEG C)	TEMPERATURE, AIR (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT										
05...	1430	18	304	300	7.3	7.2	17.0	29.0	7.5	79
NOV										
03...	1430	44	220	230	7.1	7.1	16.5	25.0	5.5	57
DEC										
08...	1415	59	182	190	7.1	7.0	9.0	19.5	8.3	73
JAN										
05...	1530	--	49	50	6.4	6.2	7.5	15.0	8.7	73
FEB										
02...	0920	320	--	128	6.7	7.0	8.0	4.0	7.9	67
MAR										
09...	1400	410	77	78	--	6.7	9.5	18.5	8.2	--
APR										
06...	0925	850	68	73	6.7	6.6	9.0	6.0	7.4	64
MAY										
05...	1200	130	105	102	7.0	7.3	18.0	27.0	7.8	84
JUN										
09...	1000	90	135	136	--	7.0	22.5	28.5	6.4	75
30...	1350	230	--	97	6.8	6.9	22.0	32.0	7.2	84
AUG										
11...	1330	96	120	124	6.9	7.3	25.0	28.5	7.4	91
SEP										
09...	1300	26	175	174	7.3	7.3	21.0	25.5	6.2	70

DATE	TURBIDITY (JTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	ALKALINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT										
05...	5	.6	<30	48	<1	208	2.1	.100	1.38	7.0
NOV										
03...	5	1.1	<30	44	1	162	.96	.130	1.10	7.0
DEC										
08...	9	1.2	30	30	3	132	1.8	.240	1.20	5.2
JAN										
05...	60	1.4	1500	7.0	22	100	.49	.040	.160	4.0
FEB										
02...	13	1.5	130	25	13	112	1.0	.450	.440	10
MAR										
09...	23	1.3	170	14	9	88	.52	.080	.280	6.0
APR										
06...	34	1.4	2300	15	10	100	.45	.100	.300	10
MAY										
05...	12	1.0	130	23	--	--	.72	.060	.250	4.0
JUN										
09...	15	.4	20	32	6	120	1.3	.060	.580	5.0
30...	22	1.0	790	20	15	108	.38	.060	.460	4.0
AUG										
11...	10	.6	270	31	5	96	.74	.070	.320	--
SEP										
09...	5	.3	40	39	4	136	1.5	.060	.620	4.5

02344400 FLINT RIVER ABOVE GRIFFIN, GA.

LOCATION.--Lat 33°18'33", long 84°23'36", Spalding-Fayette County line, Hydrologic Unit 03130005, at bridge on State Highway 92, 3.4 mi (5.5 km) upstream from Central of Georgia Railroad bridge, and 8.5 mi (13.7 km) northwest of Griffin, and at mile 313.2 (503.9 km).

DRAINAGE AREA.--194 mi^2 (502 km^2).

PERIOD OF RECORD.--July 1975 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	TEMPER-ATURE, AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT										
05...	1515	20	287	281	7.3	7.2	16.5	30.0	7.0	73
NOV										
03...	1515	40	179	181	7.2	7.2	16.0	25.5	6.5	67
DEC										
08...	1500	54	--	157	7.1	6.9	8.0	18.0	9.0	76
JAN										
05...	1600	1410	55	57	6.4	6.4	7.5	13.5	8.5	72
FEB										
02...	0950	300	--	118	6.7	7.0	8.0	4.5	8.2	70
MAR										
09...	1300	900	77	78	6.6	6.6	10.0	14.0	8.5	--
APR										
07...	1010	1180	72	78	6.7	6.6	10.0	9.0	7.3	65
MAY										
05...	1230	165	115	119	7.0	7.2	18.5	28.0	7.6	83
JUN										
09...	1045	100	120	118	--	7.0	22.0	35.0	6.3	73
30...	1320	136	--	107	6.9	6.9	21.5	33.0	6.8	78
AUG										
11...	1245	60	154	154	7.0	7.4	24.5	28.0	6.9	84
SEP										
09...	1215	32	--	151	7.3	7.3	21.5	24.5	5.6	64

DATE	TUR-BID-ITY (JTU)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, CON-FIRMED (MPN)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)
OCT								
05...	10	13	.6	2300	70	48	5	196
NOV								
03...	6	15	1.2	4300	230	36	5	132
DEC								
08...	9	11	.9	430	90	27	1	116
JAN								
05...	52	18	1.2	23000	230	7.0	22	92
FEB								
02...	4	11	1.0	4900	40	21	7	100
MAR								
09...	22	10	1.8	23000	220	15	8	84
APR								
07...	25	21	1.6	26000	7000	20	16	102
MAY								
05...	8	20	.9	490	20	21	11	100
JUN								
09...	20	16	.7	4900	130	32	29	132
30...	21	22	.9	46000	3100	21	12	116
AUG								
11...	10	16	.5	3300	790	35	4	124
SEP								
09...	9	52	.6	1300	330	37	8	120

02344400 FLINT RIVER ABOVE GRIFFIN, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT					
05...	1.4	.060	.60	1.46	5.0
NOV					
03...	.49	.020	.40	.510	6.5
DEC					
04...	1.0	.140	.50	.690	5.4
JAN					
05...	.36	.020	.40	.190	5.0
FEB					
02...	.99	.300	.70	.410	5.0
MAR					
04...	.46	.060	.60	.250	7.0
APR					
07...	.51	.070	.70	.300	9.0
MAY					
05...	.84	.040	.60	.350	4.0
JUN					
09...	.66	.030	.60	.420	6.0
30...	.60	.060	.63	.420	6.0
AUG					
11...	1.4	.050	.60	.420	--
SEP					
09...	.66	.040	.90	.430	17

02344500 FLINT RIVER NEAR GRIFFIN, GA.

LOCATION.--Lat 33°14'39", long 84°25'45", Spalding County, Hydrologic Unit 03130005, at downstream side of pier of bridge on State Highway 16, 1.5 mi (2.4 km) downstream from Shoal Creek, 5.5 mi (8.8 km) upstream from Line Creek, 10 mi (16 km) west of Griffin, and at mile 304.4 (489.8 km).

DRAINAGE AREA.--272 mi^2 (704 km^2).

PERIOD OF RECORD.--March 1937 to current year. Monthly discharge only for some periods, published in WSP 1304.

GAGE.--Water-stage recorder. Datum of gage is 711.44 ft (216.847 m) National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Prior to Aug. 25, 1938, nonrecording gage at present site at datum 3.00 ft (0.91 m) higher. Aug. 25, 1938, to May 5, 1941, nonrecording gage, May 6, 1941, to Aug. 20, 1959, water-stage recorder, and Aug. 21, 1959 to Sept. 13, 1960, nonrecording gage, all at present site and datum.

REMARKS.--Records good. Some diurnal fluctuation at low flow. City of Griffin diverted an average of about 8 ft^3/s (0.23 m^3/s) for municipal supply at pumping plant 6 mi (9.7 km) above station. An average of about 1 ft^3/s (0.03 m^3/s) of the diversion was discharged as sewage effluent into tributaries of Towaliga River, and an average of about 3 ft^3/s (0.08 m^3/s) was returned as sewage effluent to Flint River about 49 mi (79 km) downstream. Records of chemical analyses for the water years 1968-69, 1971-72, are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--45 years, 354 ft^3/s (10.03 m^3/s), 17.67 in/yr (449 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,200 ft^3/s (374 m^3/s) Nov. 27, 1948, gage height 18.0 ft (5.49 m); minimum daily, 2.5 ft^3/s (0.071 m^3/s) Oct. 20, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 14 or 15, 1929, reached a stage of 17.9 ft (5.46 m), present datum, from floodmark located by local resident, discharge, 15,300 ft^3/s (433 m^3/s).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,000 ft^3/s (56.6 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 4	1700	3910	111	12.43	3.789
Feb. 5	1100	*4430	125	12.74	3.883
Apr. 20	2000	2650	75.0	11.51	3.508

Minimum daily discharge, 19 ft^3/s (0.54 m^3/s) Oct. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	71	95	1500	329	616	174	367	285	239	135	58
2	24	61	177	1260	340	649	178	297	210	188	214	61
3	21	54	256	1440	1410	466	175	255	173	126	316	56
4	26	52	304	2950	3020	339	191	231	155	103	295	82
5	21	43	216	2630	4020	299	255	204	153	83	150	114
6	19	47	139	2330	2200	280	449	178	241	78	105	90
7	21	65	113	1500	1040	483	645	163	322	96	96	65
8	23	81	102	825	687	650	847	212	207	161	107	58
9	23	79	88	486	542	724	551	224	131	122	104	49
10	39	68	79	389	562	687	334	216	103	186	108	47
11	53	63	83	331	625	425	322	201	86	184	123	53
12	49	58	85	300	682	331	266	162	78	160	146	72
13	114	56	83	270	599	296	218	141	92	132	159	101
14	122	54	99	282	454	272	210	127	100	158	145	93
15	60	55	156	301	399	261	207	112	121	171	115	77
16	41	60	198	316	447	456	463	106	136	114	99	76
17	36	63	279	364	904	480	376	123	94	225	93	70
18	34	65	244	363	953	662	453	173	79	216	84	59
19	34	64	155	397	1060	553	451	215	71	216	92	58
20	33	66	122	406	781	355	1870	252	69	252	131	47
21	37	66	111	376	485	296	1600	231	66	395	146	43
22	37	65	106	360	364	277	950	180	64	532	160	47
23	30	82	114	378	314	262	886	175	60	326	110	46
24	34	81	127	503	276	257	543	200	52	164	84	46
25	38	78	394	453	247	263	512	243	65	187	72	39
26	76	85	617	456	241	241	1260	232	58	262	61	39
27	104	102	648	366	367	227	1460	201	67	210	57	63
28	170	96	888	279	553	216	1750	182	91	124	57	49
29	212	82	724	248	---	199	1020	162	96	98	65	58
30	132	70	394	231	---	183	587	141	185	90	60	58
31	90	---	674	240	---	178	---	454	---	106	55	---
TOTAL	1781	2032	7870	22530	23901	11885	19203	6360	3710	5704	3744	1874
MEAN	57.5	67.7	254	727	854	383	640	205	124	184	121	62.5
MAX	212	102	888	2950	4020	724	1870	454	322	532	316	114
MIN	19	43	79	231	241	178	174	106	52	78	55	39
CFSM	.21	.25	.93	2.67	3.14	1.41	2.35	.75	.46	.68	.45	.23
IN.	.24	.28	1.08	3.08	3.27	1.63	2.63	.87	.51	.78	.51	.26

CAL YR 1981 TOTAL 75901 MEAN 208 MAX 4400 MIN 16 CFSM .77 IN 10.38
WTR YR 1982 TOTAL 110594 MEAN 303 MAX 4020 MIN 19 CFSM 1.11 IN 15.13

02344700 LINE CREEK NEAR SENOIA, GA.

LOCATION.--Lat 33°19'10", long 84°31'25", Coweta-Fayette County line, Hydrologic Unit 03130005, on downstream side of bridge on State Highway 85, 2.2 mi (3.5 km) northeast of Senoia, 4.1 mi (6.6 km) upstream from Whitewater Creek, and 11.2 mi (18.0 km) upstream from mouth.

DRAINAGE AREA.--101 mi^2 (262 km^2), approximately.

PERIOD OF RECORD.--September 1964 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 740 ft (226 m), from topographic map.

REMARKS.--Records good. Low flow affected by withdrawals and return flow by several municipalities.

AVERAGE DISCHARGE.--18 years, 134 ft^3/s (3.795 m^3/s), 18.02 in/yr (458 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,580 ft^3/s (271 m^3/s) Nov. 5, 1977, gage height, 14.88 ft (4.535 m); minimum daily discharge, 2.0 ft^3/s (0.057 m^3/s) July 18, 19, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,000 ft^3/s (28.3 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 5	0900	1130	32.0	8.84	2.694	Apr. 26	2200	1280	36.2	8.95	2.728
Feb. 4	0700	*2900	82.1	11.23	3.423						

Minimum daily discharge, 2.7 ft^3/s (0.076 m^3/s) Oct. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.9	9.5	27	372	118	219	71	143	54	210	165	14
2	3.7	11	55	480	130	130	69	123	71	106	201	18
3	3.4	11	49	249	930	104	75	110	58	70	88	31
4	2.9	14	30	452	2380	92	112	99	59	52	55	34
5	2.8	14	21	1040	852	85	158	87	109	46	42	25
6	3.2	13	16	529	397	82	416	79	127	40	36	20
7	2.9	15	13	235	265	182	341	74	73	36	32	17
8	2.8	14	14	170	206	263	170	98	46	34	39	15
9	2.7	15	15	149	291	190	150	103	33	74	39	13
10	6.6	15	13	110	480	127	127	82	27	66	37	13
11	9.1	15	13	94	477	107	102	68	27	44	28	19
12	5.5	15	14	93	281	107	86	53	28	38	23	24
13	6.8	14	14	92	191	106	77	47	47	49	23	25
14	9.1	13	20	95	162	99	82	40	68	42	25	41
15	7.7	14	59	93	136	102	90	38	50	39	26	48
16	6.7	14	74	96	176	277	125	34	37	60	24	35
17	6.0	14	52	114	390	321	130	33	31	63	23	26
18	5.8	12	33	107	468	205	221	32	28	50	171	21
19	4.7	12	22	102	320	145	185	42	26	73	181	17
20	4.7	11	17	133	214	120	289	45	23	58	92	15
21	5.1	16	14	137	151	107	618	49	21	55	62	14
22	5.3	14	19	113	110	114	397	48	19	38	44	12
23	7.1	13	28	108	90	109	208	67	19	34	35	11
24	9.7	14	35	157	81	97	156	273	20	49	29	10
25	11	17	123	159	85	105	196	211	19	50	25	9.6
26	15	16	273	115	74	99	936	152	142	69	23	9.9
27	18	15	221	89	153	85	926	115	359	52	20	12
28	19	14	111	75	281	72	422	86	150	35	19	12
29	16	15	96	71	---	65	247	70	137	28	18	12
30	12	16	108	69	---	66	178	59	209	26	16	11
31	10	---	147	71	---	66	---	56	---	126	15	---
TOTAL	229.2	415.5	1746	5969	9889	4048	7360	2616	2117	1812	1656	584.5
MEAN	7.39	13.9	56.3	193	353	131	245	84.4	70.6	58.5	53.4	19.5
MAX	19	17	273	1040	2380	321	936	273	359	210	201	48
MIN	2.7	9.5	13	69	74	65	69	32	19	26	15	9.6
CFSM	.07	.14	.56	1.91	3.50	1.30	2.43	.84	.70	.58	.53	.19
IN.	.08	.15	.64	2.20	3.64	1.49	2.71	.96	.78	.67	.61	.22

CAL YR 1981 TOTAL 25476.3 MEAN 69.8 MAX 2200 MIN 2.0 CFSM .69 IN 9.38
WTR YR 1982 TOTAL 38442.2 MEAN 105 MAX 2380 MIN 2.7 CFSM 1.04 IN 14.16

02346180 FLINT RIVER NEAR THOMASTON, GA.

LOCATION.--Lat 32°50'20", long 84°25'27", Upson-Talbot County line, Hydrologic Unit 03130005, at downstream end of left bank pier of bridge on State Highway 36, 2.5 mi (4.0 km) upstream from Lazar Creek, and 7.8 mi (12.6 km) west of Thomaston.

DRAINAGE AREA.--1,220 mi^2 (3,160 km^2), approximately.

PERIOD OF RECORD.--May 1966 to current year.

GAGE.--Water-stage recorder. Datum of gage is 490.00 ft (149.352 m) National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

REMARKS.--Records fair except those for periods of no gage-height record, Apr. 29 to May 25, which are poor.

AVERAGE DISCHARGE.--16 years, 1,679 ft^3/s (47.55 m^3/s), 18.69 in/yr (475 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 34,400 ft^3/s (974 m^3/s) Mar. 3, 1971, gage height, 18.4 ft (5.61 m), from floodmarks; minimum daily, 77 ft^3/s (2.18 m^3/s) Oct. 6, 1981.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Nov. 28, 1948 reached a stage of 19.3 ft (5.88 m), from floodmarks.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 7,000 ft^3/s (198 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 5	0300	10300	292	12.64	3.853	Apr. 21	1900	*16200	459	14.31	4.362
Feb. 4	1100	13300	377	13.45	4.100	Apr. 27	0500	8100	229	11.68	3.560

Minimum daily discharge, 77 ft^3/s (2.18 m^3/s) Oct. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	97	290	559	5250	1490	2290	1020	2200	1130	840	1230	243
2	90	253	858	4710	1700	2120	1010	1700	949	899	1310	279
3	86	234	874	3830	9180	1830	1050	1400	815	700	1250	328
4	85	223	799	7130	12800	1530	1110	1300	747	529	1030	388
5	82	223	726	9470	11000	1380	1310	1150	716	447	818	384
6	77	217	602	6970	9500	1350	1960	1000	726	399	617	387
7	79	207	495	5630	6340	2410	2170	1200	835	375	541	342
8	84	203	442	4230	3300	2870	2380	1300	845	386	531	288
9	96	224	408	2500	2320	2610	2190	1400	676	523	548	253
10	229	250	390	1780	2350	2240	1720	1250	539	521	557	255
11	408	253	370	1450	2560	1910	1390	1100	472	627	528	317
12	446	249	361	1210	2650	1570	1270	900	432	627	507	326
13	367	243	361	1190	2390	1440	1150	800	501	637	523	345
14	300	245	460	1370	1970	1370	1070	700	540	681	518	371
15	322	243	818	1410	1720	1310	1040	650	563	705	503	368
16	275	249	977	1530	1930	1570	1800	600	545	850	444	348
17	224	255	936	1690	3680	2110	1670	600	527	971	403	333
18	200	266	886	1630	3990	2250	1730	800	459	1010	415	315
19	184	267	748	1530	3560	2170	2100	1000	410	912	591	279
20	176	282	604	1560	2960	1750	6040	1200	370	791	1120	257
21	172	279	538	1540	2210	1450	14600	1300	346	783	976	232
22	174	284	496	1450	1720	1380	10700	1100	336	1150	693	205
23	180	284	506	1420	1480	1330	4650	1600	330	1610	592	188
24	192	332	581	1870	1350	1280	2890	1800	320	1360	484	183
25	234	355	2310	1870	1260	1280	2780	1650	295	1190	408	178
26	478	344	3490	1670	1210	1280	5380	1520	289	890	362	186
27	458	345	2840	1460	1650	1200	7670	1290	392	815	320	194
28	440	375	2370	1270	2310	1120	6630	1110	1060	685	290	233
29	427	380	2110	1130	---	1060	5000	948	882	590	266	249
30	433	377	1820	1060	---	1030	3200	818	721	512	259	210
31	355	---	2760	1090	---	1010	---	747	---	554	255	---
TOTAL	7450	8231	32495	81900	100780	51550	98720	36133	17768	23569	18889	8464
MEAN	240	274	1048	2642	3599	1663	3291	1166	592	760	609	282
MAX	478	380	3490	9470	12800	2870	14600	2200	1130	1610	1310	388
MIN	77	203	361	1060	1210	1010	1010	600	289	375	255	178
CFSM	.20	.23	.86	2.17	2.95	1.36	2.70	.96	.49	.62	.50	.23
IN.	.23	.25	.99	2.50	3.07	1.57	3.01	1.10	.54	.72	.58	.26

CAL YR 1981 TOTAL 321535 MEAN 881 MAX 16300 MIN 77 CFSM .72 IN 9.80
WTR YR 1982 TOTAL 485949 MEAN 1331 MAX 14600 MIN 77 CFSM 1.09 IN 14.82

02347500 FLINT RIVER NEAR CULLODEN, GA.

LOCATION.--Lat 32°43'17", long 84°13'57", Taylor-Upson County line, Hydrologic Unit 03130005, on left bank underneath bridge on U.S. Highway 19, 4 mi (6.4 km) upstream from Auchumpkee Creek, 5 mi (8.0 km) downstream from Swift Creek, 13 mi (20.9 km) southwest of Culloden, and at mile 238.4 (383.6 km).

DRAINAGE AREA.--1,850 mi^2 (4,790 km^2), approximately.

PERIOD OF RECORD.--July 1911 to May 1923, July 1928 to December 1931, March 1937 to current year.

REVISED RECORDS.--WSP 697: 1911-23. WSP 1002: 1943. WSP 1504: 1913, 1916-17, 1918(M), 1919-22, 1923(M), drainage area.

GAGE.--Water-stage recorder. Datum of gage is 334.54 ft (101.968 m) National Geodetic Vertical Datum of 1929. July 1, 1911, to Oct. 11, 1918, nonrecording gage and Oct. 12, 1918, to May 31, 1923, water-stage recorder, at site 2.5 mi (4.0 km) downstream at different datum. July 21, 1928, to Dec. 31, 1931, and Mar. 18, 1937, to May 3, 1939, nonrecording gage at present site and datum.

REMARKS.--Records good. Records of chemical analyses for the water years 1968-79 are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--59 years (1911-22, 1928-31, 1937-82), 2,397 ft^3/s (67.88 m^3/s), 17.60 in/yr (447 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 92,000 ft^3/s (2,610 m^3/s) Mar. 15, 1929, gage height, 38.4 ft (11.70 m), from graph based on gage readings; minimum observed, 92 ft^3/s (2.61 m^3/s) Oct. 4, 6, 7, 1931.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1912, that of Mar. 15, 1929.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 11,000 ft^3/s (312 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Dec. 31	2000	11500	326	13.45	4.100	Apr. 21	2400	18600	537	18.17	5.538
Jan. 5	0500	12500	354	14.21	4.331	Apr. 27	1100	12000	340	13.86	4.225
Feb. 3	2400	*22300	632	20.41	6.221						

Minimum discharge, 96 ft^3/s (2.72 m^3/s) Oct. 7, 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	125	491	687	9600	2070	3050	1340	3400	1290	987	1120	366
2	118	430	1710	6980	2520	2870	1330	2650	1370	1070	2220	376
3	108	392	1450	5600	12800	2620	1330	2330	1180	978	1780	466
4	103	375	1170	9360	21400	2300	1450	2080	1080	785	1400	491
5	103	363	1020	11800	16000	2020	1860	1890	1030	670	1150	534
6	101	358	844	8960	12200	1900	4340	1710	996	607	982	507
7	98	336	703	7290	9740	2950	3390	1580	1020	584	833	487
8	103	317	645	6280	6060	4290	3100	2080	1080	598	875	427
9	120	322	599	3980	3850	3800	2940	2470	989	635	944	373
10	181	365	574	2840	3410	3340	2450	1970	833	818	879	361
11	453	407	550	2240	3490	2900	1980	1660	730	937	830	631
12	590	405	535	1880	3580	2460	1740	1480	664	957	797	598
13	546	379	553	1850	3580	2180	1590	1320	754	897	809	533
14	419	359	1130	2280	3130	2030	1450	1220	826	991	945	525
15	372	347	1980	2430	2690	1940	1790	1120	836	1260	843	528
16	372	344	1730	2440	2640	1920	4340	1070	809	1060	739	496
17	319	349	1440	2570	4880	2570	2460	1030	772	1200	659	464
18	266	362	1290	2500	5910	2760	2630	1060	732	1290	705	432
19	236	361	1100	2290	5110	2750	2660	1180	673	1280	778	418
20	222	367	929	2230	4350	2400	6750	1630	611	1090	1080	374
21	217	374	836	2210	3530	2000	15500	1710	565	1010	1240	348
22	216	365	807	2080	2760	1910	15300	1770	561	1020	946	314
23	220	368	807	1980	2340	1850	7350	1430	568	1910	804	283
24	228	400	1460	2430	2090	1740	4490	2330	547	1800	714	267
25	294	517	7360	2620	1930	1710	3800	2480	534	1540	614	265
26	716	478	6190	2360	1810	1710	8360	2200	494	1200	540	266
27	899	442	4820	2090	1900	1620	11100	2380	513	1020	490	278
28	760	452	3850	1850	2760	1510	9450	1750	1050	939	445	279
29	662	472	3300	1640	---	1430	7110	1440	1320	813	406	322
30	633	462	2800	1510	---	1380	5030	1240	1020	1270	375	310
31	585	---	7990	1470	---	1350	---	1110	---	900	371	---
TOTAL	10385	11759	60859	117640	148530	71260	138410	54770	25447	32116	27313	12319
MEAN	335	392	1963	3795	5305	2299	4614	1767	848	1036	881	411
MAX	899	517	7990	11800	21400	4290	15500	3400	1370	1910	2220	631
MIN	98	317	535	1470	1810	1350	1330	1030	494	584	371	265
CFSM	.18	.21	1.06	2.05	2.87	1.24	2.49	.96	.46	.56	.48	.22
IN.	.21	.24	1.22	2.37	2.99	1.43	2.78	1.10	.51	.65	.55	.25

CAL YR 1981 TOTAL 511641 MEAN 1402 MAX 29900 MIN 98 CFSM .76 IN 10.29
WTR YR 1982 TOTAL 710808 MEAN 1947 MAX 21400 MIN 98 CFSM 1.05 IN 14.29

02349500 FLINT RIVER AT MONTEZUMA, GA.

LOCATION.--Lat 32°17'53", long 84°02'38", Macon County, Hydrologic Unit 03130006, near left bank on downstream end of pier of bridge on State Highways 26 and 49, 1,000 ft (305 m) upstream from Central of Georgia Railway bridge, 1,400 ft (427 m) upstream from Seaboard Coast Line Railroad (formerly Atlanta, Birmingham and Coast) bridge, just upstream from Buck Creek, 1 mi (1.6 km) west of Montezuma, and at mile 180.6 (290.6 km).

DRAINAGE AREA.--2,900 mi^2 (7,500 km^2), approximately; includes that of Buck Creek.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1904 to December 1912 (published as "near Montezuma"), July 1930 to current year. Monthly discharge only for some periods, published in WSP 1304. Gage-height records collected at same site since 1904 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 822: Drainage area. WSP 852: 1936(M). WSP 1504: 19[illegible]-9, 1911-12, drainage area (at site used prior to 1912).

GAGE.--Water-stage recorder. Datum of gage is 255.83 ft (77.977 m) National Geodetic Vertical Datum of 1929. January 1905 to December 1909, and January 1911 to December 1912, nonrecording gage at site 1.5 mi (2.4 km) upstream at same datum. July 1, 1930, to June 30, 1933, and Oct. 1, 1934, to Dec. 12, 1941, nonrecording gage, and Dec. 13, 1941, to Oct. 25, 1955, water-stage recorder at site 500 ft (152 m) downstream at same datum.

REMARKS.--Records good. Records include flow of Buck Creek. Prior to Dec. 31, 1963, when operation was discontinued, moderate diurnal fluctuation at low flow caused by powerplant above station.

AVERAGE DISCHARGE.--60 years, 3,584 ft^3/s (101.5 m^3/s), 16.78 in/yr (426 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 68,900 ft^3/s (1,950 m^3/s) Nov. 30, 1948, gage height, 25.2 ft (7.68 m); minimum daily, 516 ft^3/s (14.6 m^3/s) Oct. 5, 1981.

FLOODS OUTSIDE PERIOD OF RECORD.--Flood on Mar. 2, 1897, reached a stage of 26.0 ft (7.92 m) at former site, from National Weather Service, discharge, 97,000 ft^3/s (2,750 m^3/s), from rating curve extended above 10,000 ft^3/s (283 m^3/s) on basis of peak flows passing upstream and downstream stations.

Flood on Mar. 17, 1929, reached a stage of 27.4 ft (8.35 m), at present site, from National Weather Service, discharge, 92,300 ft^3/s (2,610 m^3/s), from rating curve extended above 65,000 ft^3/s (1,840 m^3/s).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 13,000 ft^3/s (368 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 7	0600	*24600	697	17.63	5.374	Apr. 25	0300	15500	439	14.71	4.484

Minimum daily discharge, 516 ft^3/s (14.6 m^3/s) Oct. 5.

REVISIONS.--The maximum discharge and peak discharges for the water year 1981 have been revised, as shown in the following table. They supercede figures published in the report for 1981.

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 14	1300	*36000	1020	19.94	6.078	Apr. 4	1300	25900	733	17.98	5.480

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	554	1150	1090	7060	2980	3850	2390	11900	2080	1930	2170	960
2	541	1040	1230	8330	3360	4290	2350	9520	2020	1720	2250	943
3	526	1010	1820	9450	4620	4240	2370	5680	2190	1690	3220	995
4	522	958	2140	11800	8160	4020	2440	3930	2060	1670	3190	1070
5	516	920	1870	12300	10600	3710	2840	3400	2080	1590	2650	1070
6	519	896	1650	10700	18900	3450	5060	3070	2000	1530	2360	1060
7	520	876	1500	10900	23800	3700	6710	2840	1850	1440	2470	1040
8	518	866	1380	12800	19700	4630	6920	2790	1740	1400	2410	1000
9	535	849	1260	12600	16000	5810	5990	3070	1750	1370	2190	971
10	626	858	1180	11000	13000	6030	5060	3230	1680	1470	2120	952
11	750	906	1120	8680	9350	5350	4190	3220	1540	1690	2010	1020
12	816	971	1080	5200	6270	4650	3480	2930	1440	2070	1940	1260
13	956	978	1050	4000	5550	4070	3080	2590	1500	2090	2600	1490
14	966	950	1130	4040	5410	3640	2840	2360	1640	2230	2730	1390
15	926	916	1520	4570	5120	3400	2650	2210	1660	2080	3110	1260
16	846	897	2350	4840	4730	3240	2680	2080	1560	2150	2560	1190
17	800	883	3020	4700	6030	3140	4380	1970	1550	2180	2120	1120
18	794	875	2790	4570	7060	3470	4380	1870	1640	2170	1840	1060
19	773	879	2410	4380	7600	3840	4040	1860	1530	2320	1840	1090
20	746	892	2120	4070	8030	3900	4070	1980	1390	2410	1860	1110
21	716	901	1840	3860	7680	3670	5000	2430	1300	2200	1840	1070
22	699	916	1630	3770	6420	3180	6720	2580	1340	1980	2030	1050
23	688	912	1530	3650	5050	2990	8780	2720	1530	2510	1870	983
24	642	945	1490	3620	4240	3040	13600	3400	1460	3030	1640	913
25	764	963	1770	3860	3780	2960	15100	3750	1280	3110	1490	867
26	981	943	4070	4100	3510	2890	12300	4150	1200	2800	1360	846
27	1250	1050	5980	3890	3340	2830	9400	4150	1170	2360	1250	847
28	1620	1040	5910	3540	3350	2710	9040	4370	1200	2050	1170	861
29	1610	1030	7370	3240	---	2570	10600	3420	1390	1910	1100	857
30	1380	1050	6840	3010	---	2480	12600	2740	1990	1760	1040	841
31	1210	---	5950	2890	---	2420	---	2310	---	2050	989	---
TOTAL	25311	28410	79090	195420	223640	114170	181060	108520	48760	62960	63419	31186
MEAN	816	947	2551	6304	7987	3683	6035	3501	1625	2031	2046	1040
MAX	1620	1150	7370	12800	23800	6030	15100	11900	2190	3110	3220	1490
MIN	516	849	1050	2890	2980	2420	2350	1860	1170	1370	989	841
CFSM	.28	.33	.88	2.17	2.75	1.27	2.08	1.21	.56	.70	.71	.36
IN.	.32	.36	1.01	2.51	2.87	1.46	2.32	1.39	.63	.81	.81	.40

CAL YR 1981 TOTAL 832412 MEAN 2281 MAX 30800 MIN 516 CFSM .79 IN 10.68
WTR YR 1982 TOTAL 1161946 MEAN 3183 MAX 23800 MIN 516 CFSM 1.10 IN 14.90

02349500 FLINT RIVER AT MONTEZUMA, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.45	1.84	1.71	9.58	4.93	6.11	4.04	13.06	3.54	3.30	3.69	1.44
2	.42	1.71	2.00	10.65	5.46	6.67	3.99	11.58	3.45	2.93	3.82	1.40
3	.37	1.55	3.10	11.55	7.03	6.62	4.01	8.21	3.72	2.89	5.26	1.52
4	.36	1.44	3.65	12.99	10.51	6.33	4.13	6.21	3.51	2.84	5.22	1.69
5	.34	1.35	3.20	13.23	12.28	5.92	4.71	5.52	3.56	2.71	4.45	1.68
6	.35	1.30	2.80	12.42	15.88	5.59	7.57	5.06	3.42	2.59	4.00	1.65
7	.36	1.25	2.54	12.53	17.43	5.91	9.27	4.72	3.15	2.42	4.17	1.62
8	.35	1.23	2.30	13.49	16.26	7.09	9.46	4.65	2.97	2.35	4.08	1.54
9	.40	1.19	2.06	13.41	14.92	8.41	8.60	5.06	2.99	2.29	3.73	1.47
10	.64	1.21	1.90	12.55	13.57	8.64	7.61	5.28	2.86	2.48	3.61	1.42
11	.95	1.32	1.78	10.93	11.43	7.44	6.54	5.27	2.60	2.88	3.44	1.57
12	1.11	1.46	1.69	7.73	8.85	7.12	5.62	4.86	2.41	3.54	3.31	2.07
13	1.32	1.48	1.64	6.31	8.15	6.39	5.07	4.36	2.54	3.56	4.37	2.51
14	1.45	1.42	1.80	6.36	8.01	5.83	4.72	4.00	2.79	3.79	4.55	2.32
15	1.37	1.34	2.56	7.02	7.67	5.52	4.44	3.76	2.82	3.54	5.10	2.08
16	1.18	1.30	3.97	7.35	7.21	5.30	4.48	3.55	2.64	3.66	4.31	1.92
17	1.07	1.27	4.99	7.17	8.64	5.15	6.78	3.37	2.62	3.72	3.61	1.79
18	1.06	1.25	4.65	7.02	9.58	5.61	6.79	3.19	2.79	3.70	3.14	1.67
19	1.01	1.26	4.08	6.79	10.04	6.10	6.36	3.18	2.59	3.93	3.14	1.72
20	.94	1.29	3.61	6.40	10.41	6.18	6.40	3.38	2.33	4.08	3.18	1.76
21	.87	1.31	3.14	6.13	10.11	5.87	7.51	4.10	2.16	3.75	3.14	1.68
22	.83	1.34	2.77	6.00	9.02	5.20	9.27	4.34	2.23	3.38	3.47	1.64
23	.80	1.33	2.59	5.86	7.59	4.94	11.00	4.54	2.59	4.22	3.19	1.49
24	.91	1.41	2.51	5.82	6.61	5.01	13.85	5.51	2.46	5.00	2.78	1.34
25	.99	1.45	3.02	6.12	6.03	4.90	14.54	5.98	2.12	5.11	2.52	1.23
26	1.49	1.51	6.35	6.44	5.66	4.79	13.25	6.51	1.94	4.66	2.27	1.18
27	2.05	1.64	8.59	6.16	5.44	4.71	11.52	6.50	1.89	3.99	2.06	1.18
28	2.74	1.61	9.45	5.70	5.45	4.53	11.24	6.77	1.95	3.49	1.89	1.22
29	2.73	1.59	9.85	5.30	---	4.32	12.32	5.54	2.31	3.27	1.74	1.21
30	2.30	1.63	9.39	4.98	---	4.19	13.40	4.57	3.39	3.01	1.61	1.17
31	1.96	---	8.55	4.79	---	4.09	---	3.92	---	3.50	1.51	---
MEAN	1.07	1.41	3.94	8.35	9.43	5.84	7.95	5.37	2.74	3.44	3.43	1.61
MAX	2.74	1.84	9.85	13.49	17.43	8.64	14.54	13.06	3.72	5.11	5.26	2.51
MIN	.34	1.19	1.64	4.79	4.93	4.09	3.99	3.18	1.89	2.29	1.51	1.17

WTR YR 1982 MEAN 4.52 MAX 17.43 MIN .34

02349500 FLINT RIVER AT MONTEZUMA, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1968 to July 1974, August 1976 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE (DEG C)	TEMPERATURE, AIR (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT 19...	1140	785	--	54	7.0	6.7	14.5	18.5	8.4	83
NOV 19...	1310	908	--	55	6.6	--	9.0	25.0	12.0	105
DEC 07...	1330	1530	--	60	6.8	7.1	5.0	21.0	12.3	97
JAN 18...	1325	4510	--	41	--	6.6	4.0	12.5	12.2	94
FEB 15...	1325	5080	--	42	6.2	6.6	10.0	20.0	9.8	88
MAR 15...	1450	3350	--	46	--	6.6	18.0	27.0	8.2	--
APR 19...	1300	3960	44	44	6.7	6.8	19.0	23.0	7.9	86
MAY 17...	1140	1970	49	50	6.9	7.0	23.5	35.0	7.5	90
JUN 24...	1155	1490	47	47	6.7	7.0	27.0	34.5	7.3	93
JUL 19...	1125	2300	48	46	6.9	7.0	27.0	32.0	6.7	85
AUG 16...	1050	2560	50	47	6.8	6.8	26.5	29.5	6.7	84
SEP 27...	1130	870	49	50	6.9	7.0	20.5	27.5	8.2	92

DATE	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	ALKALINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 19...	30	7	.3	35	12	12	.12	.040	.030	2.0
NOV 19...	30	5	.3	40	15	<1	.08	<.020	.020	2.0
DEC 07...	50	13	1.6	90	15	14	.26	<.020	.060	4.2
JAN 18...	100	25	.2	50	8.0	24	.22	<.020	.040	5.0
FEB 15...	70	25	.5	20	8.0	36	.21	<.020	.060	3.0
MAR 15...	50	17	.3	20	14	15	.12	.030	.050	5.0
APR 19...	80	30	.8	100	14	52	.23	.020	.100	3.0
MAY 17...	50	10	.5	20	16	48	.17	.040	.030	3.0
JUN 24...	50	10	.4	170	14	12	.17	.030	.040	2.5
JUL 19...	80	18	.3	65	15	29	.33	.090	.040	2.5
AUG 16...	100	20	--	--	15	33	.12	.040	.060	5.0
SEP 27...	40	6	.3	20	15	5	.18	.040	<.020	2.0

02349900 TURKEY CREEK AT BYROMVILLE, GA.

LOCATION.--Lat 32°11'44", long 83°54'03", Dooly County, Hydrologic Unit 03130006, on downstream side of bridge on State Highway 90, 0.5 mi (0.8 km) southwest of Byromville, and 11 mi (17.7 km) upstream from mouth.
DRAINAGE AREA.—45 mi^2 (117 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Water years 1951-58 (annual maximum), June 1958 to current year.
GAGE.—Water-stage recorder. Altitude of gage is 286 ft (87 m), from topographic map. Prior to June 19, 1958, crest-stage gage at site 50 ft (15 m) upstream at same datum.
REMARKS.—Records fair.
AVERAGE DISCHARGE.—24 years (1958-82), 48.3 ft^3/s (1.368 m^3/s), 14.58 in/yr (370 mm/yr).
EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 4,820 ft^3/s (137 m^3/s) Apr. 1, 1981, gage height, 13.82 ft (4.212 m); minimum discharge, 0.1 ft^3/s (0.003 m^3/s) July 28, 1968.
EXTREMES FOR CURRENT YEAR.—Peak discharges above base of 400 ft^3/s (11.3 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 5	0300	712	20.2	10.34	3.152	Feb. 17	1700	*748	21.2	10.49	3.197
Feb. 4	0800	576	16.3	10.10	3.078						

Minimum discharge, 2.6 ft^3/s (0.074 m^3/s) Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	6.1	8.6	92	51	47	25	39	8.6	21	24	7.6
2	2.7	6.1	11	78	49	43	23	33	8.0	14	28	8.8
3	2.7	5.9	8.3	42	157	41	28	30	10	11	23	26
4	2.7	5.9	7.5	217	460	39	40	26	16	11	17	16
5	2.8	6.0	6.8	491	200	38	52	28	54	71	13	12
6	2.8	6.0	6.8	146	128	70	279	22	29	43	12	9.6
7	2.8	5.8	6.9	92	99	249	214	19	15	19	12	8.5
8	2.9	5.9	7.0	104	80	261	100	19	11	41	17	7.9
9	3.3	6.0	6.9	93	73	129	81	18	9.2	36	62	7.6
10	4.4	6.6	6.7	66	85	93	64	16	8.0	125	206	8.5
11	4.4	7.6	6.6	51	78	79	49	14	7.5	80	140	9.8
12	4.0	6.7	6.8	41	68	70	40	12	8.1	46	89	11
13	3.7	6.5	6.7	54	128	64	35	12	28	29	63	11
14	3.7	6.4	12	110	117	59	32	11	30	20	42	9.7
15	3.8	6.1	35	141	81	55	30	9.8	15	17	34	8.8
16	3.8	6.3	15	101	80	52	28	9.4	10	16	25	8.2
17	3.6	6.4	11	80	522	53	27	9.6	27	36	21	7.7
18	3.7	6.3	11	66	308	90	34	8.9	43	56	22	8.1
19	3.9	6.3	9.9	60	174	67	31	8.9	20	35	21	8.2
20	3.9	6.6	9.0	56	115	53	40	9.6	12	22	22	7.9
21	3.9	6.5	8.5	53	87	45	61	19	9.9	17	17	11
22	4.0	6.4	8.6	51	74	40	52	14	11	20	15	9.4
23	4.1	6.4	8.4	49	62	36	34	12	13	136	16	8.5
24	4.5	6.6	8.3	62	56	35	26	19	12	77	15	7.9
25	7.5	6.7	11	59	52	40	35	22	9.6	32	13	7.6
26	15	6.7	11	47	48	37	137	30	8.3	22	13	7.4
27	9.6	6.6	12	40	48	31	172	23	8.2	17	11	7.3
28	7.2	6.8	12	36	53	27	109	16	13	15	9.8	7.1
29	6.4	6.7	17	35	---	26	71	13	69	16	8.0	7.0
30	6.0	6.7	14	34	---	26	50	11	43	16	6.7	6.8
31	6.1	---	49	36	---	26	---	9.3	---	18	7.0	---
TOTAL	142.5	191.6	359.3	2683	3533	2021	1999	543.5	566.4	1135	1024.5	282.9
MEAN	4.60	6.39	11.6	86.5	126	65.2	66.6	17.5	18.9	36.6	33.0	9.43
MAX	15	7.6	49	491	522	261	279	39	69	136	206	26
MIN	2.6	5.8	6.6	34	48	26	23	8.9	7.5	11	6.7	6.8
CFSM	.10	.14	.26	1.92	2.80	1.45	1.48	.39	.42	.81	.73	.21
IN.	.12	.16	.30	2.22	2.92	1.67	1.65	.45	.47	.94	.85	.23

CAL YR 1981 TOTAL 10366.9 MEAN 28.4 MAX 1980 MIN 2.2 CFSM .63 IN 8.57
WTR YR 1982 TOTAL 14481.7 MEAN 39.7 MAX 522 MIN 2.6 CFSM .88 IN 11.97

02349900 TURKEY CREEK AT BYROMVILLE, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Miscellaneous samples collected during 1971 and 1973. July 1979 to June 1982 (discontinued).

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	TEMPER-ATURE, AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT										
19...	1220	3.9	--	147	7.0	7.1	12.0	21.0	6.8	64
NOV										
19...	1020	6.2	--	175	7.1	7.4	7.5	21.0	9.3	80
DEC										
07...	1025	7.0	--	165	7.1	7.4	4.0	12.5	10.2	79
JAN										
18...	1105	65	--	72	6.8	6.6	3.5	7.0	11.8	89
FEB										
15...	1050	81	--	62	6.4	6.6	11.5	19.0	6.7	62
MAR										
15...	1420	54	--	72	--	6.9	19.0	25.0	7.2	79
APR										
19...	1340	30	86	86	6.7	6.9	17.0	20.0	7.1	74
MAY										
17...	1225	9.6	128	129	--	7.4	21.0	35.0	6.6	75
JUN										
24...	1305	12	141	141	--	7.6	23.5	34.5	6.5	78

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT									
19...	20	6	.8	90	67	.26	.080	.060	2.0
NOV									
19...	20	5	.4	930	74	.19	.020	.040	4.0
DEC									
07...	25	6	1.5	430	75	.20	.020	.050	6.7
JAN									
18...	160	30	.1	50	12	1.7	<.020	.040	7.0
FEB									
15...	100	28	.4	110	13	.87	.020	.050	5.0
MAR									
15...	70	18	.9	330	22	.31	.050	.050	6.0
APR									
19...	80	15	.6	110	30	.25	.030	.040	4.0
MAY									
17...	60	10	.6	20	55	.32	.050	.040	4.0
JUN									
24...	80	17	.5	110	62	.35	.050	.080	4.0

02350001 FLINT RIVER NEAR VIENNA, GA.

LOCATION.--Lat 32°03'38", long 83°58'36", Dooly County, Hydrologic Unit 03100206, at bridge on State Route 27, 0.2 mi (0.3 km) downstream of Turkey Creek, and 12 mi (14.3 km) west of Vienna, and at mile 154.1 (247.9 km).
DRAINAGE AREA.--3,390 mi^2 (8,780 km^2).
PERIOD OF RECORD.--July 1979 to current year.
REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey. Records of discharge for the water years 1927-30 are published in reports of the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	TEMPER-ATURE, AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT									
19...	0935	--	124	7.0	6.9	16.0	13.0	7.1	72
NOV									
19...	0945	--	152	7.1	7.3	9.0	18.0	10.8	95
DEC									
07...	0945	--	86	6.9	7.0	6.0	10.0	11.3	92
JAN									
18...	1010	--	58	6.7	6.5	3.0	3.0	12.4	92
FEB									
15...	1010	--	57	--	6.9	10.0	18.5	10.0	89
MAR									
15...	1340	--	68	6.5	6.9	17.0	24.0	8.1	85
APR									
19...	1000	61	60	--	7.2	19.0	17.0	5.7	62
MAY									
17...	0840	80	76	6.8	7.0	23.5	24.0	7.0	83
JUN									
24...	0840	113	110	7.3	7.2	27.0	26.0	6.4	81
JUL									
19...	1220	75	75	6.8	7.0	27.0	33.0	6.2	79
AUG									
16...	1225	62	58	6.4	6.6	26.5	31.0	6.3	79
SEP									
27...	1225	--	92	6.7	7.1	22.0	27.5	7.5	87

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT									
19...	50	7	.4	30	22	.18	.100	.040	5.0
NOV									
19...	--	5	.7	150	28	.16	.050	.100	5.0
DEC									
07...	80	13	1.2	70	18	.24	.040	.060	5.2
JAN									
18...	100	24	.3	340	9.0	.30	.040	.040	5.0
FEB									
15...	100	22	.8	95	10	.26	.030	.080	4.0
MAR									
15...	50	16	.7	20	15	.20	.070	.050	5.0
APR									
19...	120	40	1.0	490	17	.20	.040	.100	5.0
MAY									
17...	60	10	.5	<20	19	.23	.070	.050	4.0
JUN									
24...	70	12	.3	80	19	.23	.050	.040	3.5
JUL									
19...	100	17	.5	20	15	.26	.110	.040	3.0
AUG									
16...	120	21	--	--	13	.34	.070	.060	5.5
SEP									
27...	50	8	2.2	20	19	.23	.030	.040	2.5

02350600 KINCHAFOONEE CREEK AT PRESTON, GA.

LOCATION.--Lat 32°03'09", long 84°32'54", Webster County, Hydrologic Unit 03130007, at bridge on State Highway 41, 1 mi (1.6 km) southwest of Preston, and 1 mi (1.6 km) upstream from Harrel Mill Creek.

DRAINAGE AREA.--197 mi^2 (510 km^2).

PERIOD OF RECORD.--December 1969 to September 1970, November 1971 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, Dissolved Oxygen, and Specific Conductance by U.S. Geological Survey. Water discharge records for the water years 1951-77 are published in reports of the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	TEMPER-ATURE, AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT										
19...	1030	59	--	32	6.6	6.5	12.0	16.0	7.3	68
NOV										
19...	1415	95	--	32	--	6.6	7.0	25.0	11.2	94
DEC										
07...	1425	95	--	31	6.2	6.5	3.0	19.0	12.2	92
JAN										
18...	1445	213	--	30	--	6.2	3.0	13.5	12.2	91
FEB										
15...	1450	266	--	31	6.0	6.3	10.0	20.5	9.2	83
MAR										
15...	1230	216	--	35	6.3	6.3	18.0	26.0	7.4	80
APR										
06...	1130	405	27	27	6.3	6.6	14.5	--	6.8	--
19...	1205	185	38	36	6.4	6.6	17.0	20.0	6.8	71
MAY										
17...	1025	90	38	36	6.5	6.8	19.0	24.0	7.6	83
JUN										
24...	0945	129	36	34	6.5	6.6	23.0	29.0	6.7	80
SEP										
08...	1030	72	43	41	6.8	7.2	21.0	--	7.4	--

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	TUR-BID-ITY (FTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
OCT										
19...	90	10	--	.7	430	--	--	--	--	--
NOV										
19...	70	7	--	.3	35	--	--	--	--	--
DEC										
07...	90	8	--	1.2	40	--	--	--	--	--
JAN										
18...	50	11	--	.1	65	--	--	--	--	--
FEB										
15...	70	8	--	.6	20	--	--	--	--	--
MAR										
15...	80	12	--	1.3	130	--	--	--	--	--
APR										
06...	90	--	18	--	--	8	1.0	2.7	.4	1.5
19...	100	10	--	.9	170	--	--	--	--	--
MAY										
17...	60	12	--	.5	80	--	--	--	--	--
JUN										
24...	140	18	--	.7	80	--	--	--	--	--
SEP										
08...	75	--	15	--	--	16	2.0	4.9	.8	1.6

02350600 KINCHAFOONEE CREEK AT PRESTON, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)
OCT												
19...	--	--	--	9.0	--	--	--	--	--	--	--	.10
NOV												
19...	--	--	--	8.0	--	--	--	--	--	--	--	.08
DEC												
07...	--	--	--	26	--	--	--	--	--	--	--	.10
JAN												
18...	--	--	--	4.0	--	--	--	--	--	--	--	.12
FEB												
15...	--	--	--	5.0	--	--	--	--	--	--	--	.08
MAR												
15...	--	--	--	10	--	--	--	--	--	--	--	.08
APR												
06...	21	.2	.5	7.0	2.0	2.5	<.1	5.4	25	20	27.3	.06
19...	--	--	--	12	--	--	--	--	--	--	--	.07
MAY												
17...	--	--	--	12	--	--	--	--	--	--	--	.10
JUN												
24...	--	--	--	10	--	--	--	--	--	--	--	.14
SEP												
08...	18	.2	.6	14	2.0	3.3	<.1	8.2	43	31	8.4	.10

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	NITRO-GEN DIS-SOLVED (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT												
19...	--	.020	--	--	--	--	--	--	--	.030	--	5.0
NOV												
19...	--	<.020	--	--	--	--	--	--	--	.030	--	3.5
DEC												
07...	--	.020	--	--	--	--	--	--	--	.030	--	3.8
JAN												
18...	--	.040	--	--	--	--	--	--	--	<.020	--	5.0
FEB												
15...	--	<.020	--	--	--	--	--	--	--	.020	--	5.0
MAR												
15...	--	.040	--	--	--	--	--	--	--	.020	--	5.0
APR												
06...	.05	.040	.050	.44	.46	.48	.51	.56	.54	.040	.010	6.6
19...	--	.060	--	--	--	--	--	--	--	.040	--	5.0
MAY												
17...	--	.050	--	--	--	--	--	--	--	.030	--	6.0
JUN												
24...	--	.050	--	--	--	--	--	--	--	.040	--	9.0
SEP												
08...	.12	.020	<.010	.48	--	.50	1.2	1.3	.60	.020	<.010	4.1

02350600 KINCHAFOONEE CREEK AT PRESTON, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)
APR							
06...	40	1	1	1	10	<1	740
SEP							
08...	30	2	2	<1	10	2	830

DATE	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	SELENIUM, DISSOLVED (UG/L AS SE)	ZINC, DISSOLVED (UG/L AS ZN)
APR							
06...	4	<1	130	<.1	<.1	<1	7
SEP							
08...	4	2	170	.2	.2	<1	<4

02351890 MUCKALEE CREEK AT STATE HIGHWAY 195, NEAR LEESBURG, GA.

LOCATION.--Lat 31°46'34", long 84°08'22", Lee County, Hydrologic Unit 03130007, at bridge on State Highway 195, 75 ft (23 m) downstream from White Oak Branch, 3.3 mi (5.3 km) downstream from Muckaloochee Creek, and 4.0 mi (6.4 km) northeast of Leesburg.

DRAINAGE AREA.--362 mi^2 (938 km^2).

PERIOD OF RECORD.--December 1979 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 220 ft (67 m), from topographic map.

REMARKS.--Records good except those for periods of no gage-height record Oct. 20-28 and Sept. 26-30, which are fair. Discharges during growing season affected by undetermined amount of irrigation withdrawal.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,420 ft^3/s (125 m^3/s), revised Feb. 14, 1981, gage height, 12.98 ft (3.956 m); minimum discharge, 28 ft^3/s (0.79 m^3/s) July 16, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,200 ft^3/s (34.0 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 6	0300	*3080	87.2	12.10	3.688	July 18	1300	1340	37.9	10.39	3.167
Feb. 5	1400	2200	62.3	11.39	3.472	July 25	0400	2160	61.2	11.36	3.463
Feb. 18	2200	2810	79.6	11.90	3.627	July 30	0900	2180	61.7	11.38	3.469
May 27	1200	1320	37.4	10.36	3.158	Aug. 11	0800	2140	60.6	11.34	3.456

Minimum discharge, 45 ft^3/s (1.27 m^3/s) Oct. 4, 5.

REVISIONS.--The maximum discharges and peak discharges for the water years 1980 and 1981 have been revised, as shown in the following table. They supercede figures published in reports for 1980 and 1981.

1980 WATER YEAR:

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 16	1600	2160	61.2	11.36	3.463
Mar. 31	2300	*3100	87.8	12.12	3.694
Apr. 16	2200	1550	43.9	10.70	3.261

1981 WATER YEAR:

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 14	0100	*4420	125	12.98	3.956
Apr. 4	2000	2220	62.9	11.41	3.478

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	167	147	554	327	415	263	447	365	270	839	130
2	49	149	176	590	344	426	257	322	260	217	648	125
3	47	141	194	734	503	424	265	278	209	191	656	133
4	45	137	202	817	1130	408	303	255	183	157	671	149
5	45	137	204	1500	2070	385	363	234	179	142	585	166
6	46	140	194	2610	1910	392	502	217	230	146	456	165
7	51	137	168	1480	1940	506	598	200	343	130	386	155
8	56	133	153	1020	1240	671	803	196	373	126	346	140
9	63	131	146	838	830	919	861	202	363	141	361	128
10	83	135	143	749	660	907	772	219	259	245	973	124
11	103	157	141	603	590	846	725	234	179	460	1950	137
12	127	177	139	532	605	736	581	226	146	565	1280	163
13	127	201	141	513	870	541	435	187	124	501	828	226
14	117	206	151	526	1040	459	346	165	141	540	622	310
15	106	183	231	535	989	419	320	149	202	537	511	369
16	97	162	279	599	822	390	288	142	196	443	430	354
17	91	152	311	655	806	366	275	138	170	800	357	292
18	87	145	365	626	2050	358	338	137	173	1310	345	220
19	84	142	398	567	2350	360	495	136	196	1090	504	189
20	81	145	370	485	1830	370	598	134	171	680	564	170
21	84	145	293	419	1320	354	522	177	205	483	515	173
22	88	141	245	389	878	331	498	228	371	432	421	192
23	85	139	216	377	666	321	531	353	495	413	324	212
24	82	137	210	384	552	313	495	520	386	881	270	211
25	83	137	221	382	467	326	510	761	321	1760	240	190
26	94	136	220	387	435	359	531	1120	234	947	216	163
27	140	138	217	380	420	345	641	1250	207	639	194	147
28	185	140	248	350	414	374	790	1020	205	787	177	141
29	236	139	308	319	---	331	761	969	236	932	163	135
30	237	141	357	297	---	291	645	770	272	2070	150	129
31	211	---	424	292	---	272	---	498	---	1400	142	---
TOTAL	3080	4470	7212	20509	28058	13957	15312	11884	7394	19435	16124	5538
MEAN	99.4	149	233	662	1002	450	510	383	246	627	520	185
MAX	237	206	424	2610	2350	919	861	1250	495	2070	1950	369
MIN	45	131	139	292	327	272	257	134	124	126	142	124
CFSM	.28	.41	.64	1.83	2.77	1.24	1.41	1.06	.68	1.73	1.44	.51
IN.	.32	.46	.74	2.11	2.88	1.43	1.57	1.22	.76	2.00	1.66	.57

CAL YR 1981 TOTAL 77571 MEAN 213 MAX 3040 MIN 31 CFSM .59 IN 7.97
WTR YR 1982 TOTAL 152973 MEAN 419 MAX 2610 MIN 45 CFSM 1.16 IN 15.72

02352500 FLINT RIVER AT ALBANY, GA.

LOCATION.--Lat 31°35'39", long 84°08'39", Dougherty County, Hydrologic Unit 03130008, on right bank at downstream side of Georgia Northern Railway bridge in Albany, and at mile 103.4 (166.4 km).
DRAINAGE AREA.--5,310 mi^2 (13,800 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 1897 to September 1901 (gage heights only), October 1901 to June 1921, September 1929 to current year. Monthly discharges only for some periods, published in WSP 1304. Gage-height records collected at site 1 mi (1.6 km) downstream since 1893 are contained in reports of National Weather Service.
REVISED RECORDS.--WSP 1504: 1902, 1913(M), 1916-17, 1919-21, 1930(m), 1934(m), drainage area.
GAGE.--Water-stage recorder. Datum of gage is 150.03 ft (45.729 m) National Geodetic Vertical Datum of 1929. Prior to Jan. 1, 1902, nonrecording gage at site 1 mi (1.6 km) downstream at datum 1.3 ft (0.40 m) lower. Jan. 1, 1902, to June 30, 1921, nonrecording gage at site 1 mi (1.6 km) downstream at datum 2.0 ft (0.61 m) lower.
REMARKS.--Records good. Flow regulated by powerplants at Flint River Reservoir since 1921, capacity, 7,500 acre-ft (9.25 hm3); and at Warwick Reservoir since 1930, capacity about 35,000 acre-ft (43.2 hm3). Normal operation of powerplants does not materially affect figures of monthly runoff.
AVERAGE DISCHARGE.--72 years (1901-20, 1929-82), 6,288 ft^3/s (178.1 m^3/s), 16.08 in/yr (408 mm/yr).
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 77,000 ft^3/s (2,180 m^3/s) Mar. 7, 1966, gage height, 34.72 ft (10.583 m); minimum daily, 327 ft^3/s (9.26 m^3/s) regulated Aug. 24, 1930.
EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1893, 37.84 ft (11.534 m) Jan. 21, 1925, from floodmark, present site and datum, discharge, 92,000 ft^3/s (2,610 m^3/s) from rating curve extended above 75,000 ft^3/s (2,120 m^3/s).
EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 20,000 ft^3/s (566 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 5	1115	21400	606	16.12	4.913	Apr. 26	1530	20400	578	15.38	4.688
Feb. 8	2130	*25300	716	18.87	5.752						

Minimum daily discharge, 878 ft^3/s (24.9 m^3/s) Oct. 3, 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	973	1900	1730	10500	5720	5760	4390	14600	4570	3410	7150	1490
2	954	1420	2260	11200	5970	6150	4830	14700	3860	3530	7180	1480
3	878	1670	2350	11500	7850	4390	3120	14300	5920	2870	8240	1520
4	881	2040	2710	12000	12400	8440	4990	7290	3950	2990	7730	1900
5	882	1920	2710	19000	15700	6490	4310	6730	6190	2780	7190	1730
6	882	1550	2750	18400	20500	6230	7130	4310	7980	2510	5270	2350
7	878	1360	2540	18800	20600	9670	9320	3660	4020	2070	3360	2040
8	895	1210	2650	17300	24000	8690	12200	5280	4230	2190	3000	2540
9	922	1140	2300	16400	24300	8580	13200	4140	3970	2860	2660	1460
10	916	1910	2670	16500	22000	11400	10900	4170	3200	2880	3730	1670
11	909	2540	2930	14200	18900	10900	10500	4700	1820	3480	6770	3070
12	910	1810	2420	11300	15500	10200	6890	5970	1820	4950	7300	2840
13	910	2030	1780	11600	16300	9720	5970	3600	3140	5000	5830	3080
14	913	2150	1330	9030	13700	7090	5610	3230	3620	5000	7030	4190
15	916	1430	1800	8440	13900	5310	5190	3270	3270	5100	5160	2010
16	1080	1380	3430	8150	11400	6180	5070	2620	3230	5530	7540	2650
17	1490	1820	4050	9080	12200	5880	5450	3240	2850	6270	4630	2950
18	1070	1890	4770	9110	14800	5530	5720	2840	2650	7080	4380	2570
19	1220	1820	5340	6830	17100	5600	6380	2900	2790	5240	4850	1760
20	1810	1540	3560	6870	15900	5980	6660	2800	2700	5400	5740	2430
21	1400	1360	3270	7550	15300	6500	8250	2980	2450	4380	4240	3250
22	1150	1190	2880	6300	15200	5930	7310	4470	3070	4460	4030	2100
23	989	1280	1720	8140	10200	5540	9920	4680	3520	5050	4160	1720
24	912	1940	2620	7080	9760	4290	9890	6840	4520	8250	4220	1710
25	1360	1790	3370	6020	8370	5480	13900	7750	2350	8070	3030	2070
26	2220	1890	3300	6600	6430	5640	19000	9260	2240	7550	2870	1690
27	2290	1410	5370	5170	6610	5780	19200	9810	2500	6400	2620	1620
28	2430	1140	9580	4120	6600	4430	16100	9030	2820	4960	2540	3200
29	2580	1130	7700	7480	---	5020	12300	7830	3210	7320	3010	2600
30	2670	1250	9360	5660	---	3920	13500	6260	3180	7750	1910	3190
31	3160	---	10100	3660	---	3630	---	3790	---	6880	1510	---
TOTAL	41450	48910	115350	313990	387210	204350	267200	187050	105640	152210	148880	68880
MEAN	1337	1630	3721	10130	13830	6592	8907	6034	3521	4910	4803	2296
MAX	3160	2540	10100	19000	24300	11400	19200	14700	7980	8250	8240	4190
MIN	878	1130	1330	3660	5720	3630	3120	2620	1820	2070	1510	1460
CFSM	.25	.31	.70	1.91	2.61	1.24	1.68	1.14	.66	.93	.91	.43
IN.	.29	.34	.81	2.20	2.71	1.43	1.87	1.31	.74	1.07	1.04	.48

CAL YR 1981 TOTAL 1256310 MEAN 3442 MAX 29500 MIN 878 CFSM .65 IN 8.80
WTR YR 1982 TOTAL 2041120 MEAN 5592 MAX 24300 MIN 878 CFSM 1.05 IN 14.30

02352500 FLINT RIVER AT ALBANY, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.31	3.29	3.25	8.57	6.00	6.04	5.28	11.15	5.35	4.69	6.82	2.99
2	2.27	2.81	3.79	8.98	6.16	6.27	5.55	11.16	4.96	4.76	6.83	2.98
3	2.16	3.08	3.87	9.17	7.18	5.23	4.47	11.01	6.12	4.25	7.39	3.03
4	2.16	3.49	4.16	9.47	9.76	7.48	5.64	6.87	4.84	4.38	7.12	3.41
5	2.16	3.34	4.18	14.34	11.91	6.44	5.23	6.58	6.26	4.21	6.79	3.23
6	2.16	2.96	4.21	13.86	15.40	6.31	6.78	5.20	7.23	3.96	5.61	3.85
7	2.16	2.78	4.04	14.17	15.55	8.11	7.95	4.85	5.00	3.59	4.62	3.55
8	2.19	2.58	4.12	13.04	17.95	7.61	9.60	5.78	5.16	3.71	4.40	4.02
9	2.23	2.54	3.83	12.37	18.22	7.57	10.15	5.16	4.91	4.27	4.12	2.92
10	2.22	3.44	4.13	12.46	16.53	9.14	8.86	5.18	4.48	4.28	4.88	3.10
11	2.21	4.03	4.34	10.87	14.22	8.84	8.59	5.41	3.35	4.74	6.58	4.45
12	2.21	3.31	3.94	9.05	11.70	8.45	6.62	6.15	3.33	5.60	6.86	4.28
13	2.21	3.56	3.28	9.22	12.27	8.13	6.13	4.72	4.46	5.63	6.06	4.44
14	2.21	3.69	2.79	7.81	10.49	6.73	5.91	4.45	4.71	5.62	6.75	5.11
15	2.22	2.89	3.31	7.49	10.61	5.75	5.73	4.42	4.52	5.66	5.73	3.51
16	2.43	2.82	4.65	7.34	9.10	6.28	5.64	4.07	4.51	5.92	7.02	4.12
17	2.97	3.32	5.02	7.80	9.57	6.11	5.89	4.58	4.23	6.34	5.30	4.34
18	2.43	3.43	5.45	7.81	11.24	5.91	6.03	4.25	4.10	6.78	5.20	4.03
19	2.59	3.36	5.82	6.62	12.94	5.96	6.40	4.32	4.21	5.74	5.48	3.28
20	3.33	3.05	4.73	6.67	12.08	6.17	6.55	4.25	4.13	5.86	6.03	3.86
21	2.87	2.84	4.53	7.03	11.59	6.46	7.37	4.38	3.90	5.21	5.17	4.57
22	2.55	2.61	4.22	6.29	11.52	6.13	6.86	5.34	4.41	5.34	5.01	3.62
23	2.32	2.71	3.24	7.33	8.44	5.92	8.25	5.47	4.75	5.66	5.13	3.24
24	2.21	3.48	4.10	6.78	8.16	5.22	8.24	6.62	5.38	7.39	5.06	3.24
25	2.75	3.31	4.65	6.20	7.43	5.89	10.64	7.11	3.82	7.30	4.41	3.60
26	3.65	3.43	4.60	6.51	6.43	5.97	14.30	7.89	3.76	7.02	4.26	3.20
27	3.65	2.87	5.83	5.71	6.53	6.00	14.47	8.19	3.99	6.39	4.06	3.11
28	3.79	2.54	8.08	5.13	6.52	5.29	12.17	7.79	4.21	5.56	4.03	4.52
29	3.92	2.54	7.10	6.98	---	5.65	9.62	7.17	4.53	6.89	4.39	4.07
30	3.99	2.68	7.95	6.00	---	4.97	10.36	6.32	4.52	7.11	3.41	4.52
31	4.37	---	8.34	4.86	---	4.78	---	4.87	---	6.66	3.01	---
MEAN	2.67	3.09	4.70	8.58	10.91	6.48	7.84	6.15	4.64	5.50	5.40	3.74
MAX	4.37	4.03	8.34	14.34	18.22	9.14	14.47	11.16	7.23	7.39	7.39	5.11
MIN	2.16	2.54	2.79	4.86	6.00	4.78	4.47	4.07	3.33	3.59	3.01	2.92

WTR YR 1982 MEAN 5.78 MAX 18.22 MIN 2.16

02352500 FLINT RIVER AT ALBANY, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1968 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE (DEG C)	TEMPERATURE, AIR (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
DEC 07...	1550	2460	--	104	7.0	7.2	9.5	20.0	10.5	93
MAR 15...	1025	6580	--	72	6.7	7.0	16.5	24.0	9.2	95
JUN 15...	1340	2000	90	87	--	7.5	27.0	36.0	7.8	99
SEP 27...	1415	1580	105	106	7.4	7.4	24.0	28.0	7.7	93

DATE	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	ALKALINITY LAB (MG/L AS CACO3)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
DEC 07...	70	8	1.3	230	26	.24	.020	.030	4.5
MAR 15...	60	13	.3	130	18	.32	.080	.040	3.0
JUN 15...	80	15	.9	410	31	.44	<.020	.060	5.0
SEP 27...	50	6	.6	170	32	.45	.060	.030	4.5

02352790 FLINT RIVER NEAR PUTNEY, GA.

LOCATION.--Lat 31°26'39", long 84°08'16", Dougherty County, Hydrologic Unit 03130008, at Plant Mitchell intake, and 2.5 mi (4.0 km) south of Putney, and at mile 90.8 (146.1 km).

DRAINAGE AREA.--5,340 mi^2 (13,800 km^2), approximately.

PERIOD OF RECORD.--August 1974 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: July 1979 to current year.

INSTRUMENTATION.--Water temperature recorder since July 1979.

REMARKS.--Flow regulated by powerplants at Flint River and Warwick Reservoirs. (See remarks for station 02352500.) Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey. No daily water temperature record Sept. 27-30.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum recorded, 31.0°C July 15-18, 1980, July 26-29, 1981; minimum, 5.0°C Jan. 13, 1981, Jan. 15-18, 1982.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 29.5°C July 4-6, Aug. 29; minimum, 5.0°C Jan. 15-18.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE (DEG C)	TEMPERATURE, AIR (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT										
07...	1225	1150	--	183	7.4	7.3	24.0	27.0	6.9	83
NOV										
03...	1515	1770	--	159	7.4	7.5	19.5	27.5	8.4	92
DEC										
14...	1555	1400	--	160	7.1	7.2	11.5	22.0	9.2	86
JAN										
27...	1430	4200	--	100	--	7.3	9.0	9.5	11.7	101
FEB										
09...	1515	26500	--	51	6.4	6.7	11.0	24.0	9.9	91
MAR										
09...	1545	7400	--	88	6.7	--	13.5	21.0	10.4	100
APR										
13...	1520	4100	96	95	--	7.4	17.5	28.5	8.7	92
MAY										
11...	1455	3500	87	90	--	7.3	22.5	33.5	7.5	96
JUN										
15...	1230	3000	117	111	7.3	7.5	27.5	35.0	6.8	87
JUL										
20...	1355	5100	98	95	7.0	7.5	27.0	33.0	6.4	81
AUG										
17...	1355	3600	108	108	6.9	7.2	28.5	35.5	6.7	88
SEP										
28...	1400	3700	120	121	7.1	7.5	24.0	29.5	7.4	89

DATE	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	ALKALINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT												
07...	20	5	--	1.7	9300	51	4	.60	.320	--	.160	4.0
NOV												
03...	40	6	--	2.2	1500	41	8	.26	.460	--	.310	4.0
DEC												
14...	45	9	--	1.0	58000	40	7	.40	.400	--	.120	5.0
JAN												
27...	70	20	--	.5	50	23	<1	.54	.100	--	.080	10
FEB												
09...	280	52	--	1.1	3300	11	20	.25	.040	--	.100	12
MAR												
09...	70	13	--	.9	--	26	2	.49	.140	--	.080	5.0
APR												
13...	60	8	--	.8	85	28	1	.44	.110	--	.080	6.0
MAY												
11...	60	15	--	.5	490	22	2	.34	.130	--	.060	6.0
JUN												
15...	60	16	--	.8	4900	35	22	.50	.120	--	.120	4.0
JUL												
20...	80	14	13	.9	140	28	5	.28	.200	.50	.100	4.0
AUG												
17...	80	12	11	.4	490	32	5	.39	.080	.30	.080	2.0
SEP												
28...	30	5	12	.5	150	37	3	.38	.060	.40	.100	4.0

02352790 FLINT RIVER NEAR PUTNEY, GA.--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	25.5	24.5	18.5	18.0	16.5	16.0	10.0	9.5	11.5	11.0	12.5	12.0
2	25.0	24.5	19.0	18.0	16.5	15.5	10.0	9.5	11.0	11.0	12.5	11.5
3	24.5	23.0	19.5	18.5	15.5	15.0	11.0	10.0	11.5	11.0	13.0	12.0
4	23.5	22.0	19.5	18.5	15.5	14.5	11.5	11.0	11.5	11.0	13.0	12.0
5	24.0	23.0	20.0	19.5	14.5	14.0	11.5	10.5	12.0	11.5	14.0	13.0
6	24.5	23.5	20.0	19.5	13.5	13.0	11.0	10.5	12.0	12.0	14.5	14.0
7	24.0	23.5	19.5	18.5	13.5	12.5	11.0	10.5	12.0	11.5	14.5	13.5
8	23.5	22.0	19.0	18.0	13.5	12.5	11.5	11.0	11.5	11.0	13.5	13.5
9	22.0	21.5	18.5	18.0	13.0	12.5	11.5	11.0	11.0	11.0	13.5	13.0
10	22.5	21.5	18.5	18.0	12.5	11.5	10.5	9.5	11.5	11.0	13.5	12.5
11	22.0	21.5	18.5	17.5	11.5	11.0	9.5	8.0	11.5	11.0	14.0	13.5
12	22.0	21.0	17.5	17.0	11.5	11.0	8.0	7.0	11.5	11.0	15.0	13.5
13	21.5	20.5	17.5	16.5	11.0	10.5	6.5	6.0	11.0	10.5	16.0	14.5
14	21.0	20.0	16.5	16.0	12.0	11.0	6.0	6.0	11.0	11.0	17.0	15.5
15	21.0	20.0	16.0	15.5	12.0	11.0	5.5	5.0	11.5	11.0	17.0	17.0
16	21.5	20.0	16.0	15.5	11.0	10.0	5.5	5.0	13.0	11.5	18.5	17.0
17	21.5	20.5	16.0	15.0	10.5	10.0	5.5	5.0	14.0	13.0	18.5	18.0
18	21.5	20.5	15.5	14.5	10.5	9.5	5.5	5.0	14.5	13.5	19.0	18.0
19	21.0	20.0	16.0	14.5	9.5	8.5	7.5	5.5	15.0	14.0	19.5	19.0
20	20.5	19.5	16.0	15.5	8.5	8.0	7.5	7.0	15.0	14.5	20.5	19.0
21	20.5	19.5	15.5	14.5	8.0	7.5	8.0	7.5	15.0	14.5	21.0	20.5
22	21.0	20.0	14.5	14.0	9.0	7.0	9.5	7.5	14.5	14.5	20.5	20.0
23	21.0	20.5	14.5	13.5	10.0	9.0	9.5	8.5	15.0	14.0	20.0	19.5
24	20.5	19.0	15.0	14.0	10.0	9.0	9.5	9.0	15.0	14.0	20.0	20.0
25	19.0	18.0	14.5	13.5	10.0	9.5	9.5	9.0	15.5	14.5	20.0	20.0
26	18.5	18.0	14.5	13.5	10.0	10.0	9.5	9.0	15.5	14.5	20.0	19.0
27	19.5	18.5	15.5	13.5	10.0	9.5	9.5	8.5	14.5	13.5	19.0	18.0
28	19.0	18.0	16.0	15.5	10.0	9.5	9.5	9.0	13.5	12.5	18.0	16.0
29	19.0	18.0	15.5	15.0	10.5	10.0	9.5	8.5	---	---	16.0	15.5
30	18.5	18.5	16.0	15.5	10.5	10.0	10.5	9.0	---	---	17.0	16.0
31	18.5	18.0	---	---	10.0	9.5	11.5	10.5	---	---	17.0	16.5
MONTH	25.5	18.0	20.0	13.5	16.5	7.0	11.5	5.0	15.5	10.5	21.0	11.5

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	18.0	17.0	20.0	19.0	26.5	25.5	28.5	27.0	26.0	26.0	28.5	27.0
2	19.0	18.0	20.5	19.5	27.0	26.0	29.0	27.5	27.0	26.0	28.5	27.0
3	19.5	18.5	21.0	20.0	27.0	26.5	29.0	28.0	27.5	27.0	28.0	27.0
4	19.0	18.0	21.5	20.5	27.0	26.5	29.5	27.5	28.0	27.0	28.0	26.5
5	19.0	18.0	22.0	21.0	27.5	26.0	29.5	28.0	28.0	27.5	28.0	27.0
6	18.0	17.5	22.0	21.5	27.0	26.5	29.5	28.5	28.0	26.5	27.5	26.5
7	17.5	17.0	22.5	21.5	26.5	26.0	29.0	27.5	28.0	27.0	27.0	26.0
8	17.0	16.5	22.0	21.5	27.0	25.5	28.0	27.5	28.0	26.5	27.0	26.0
9	16.5	16.0	22.0	21.0	27.5	26.5	28.0	27.0	27.5	26.5	26.0	25.0
10	16.5	16.0	22.0	21.0	28.0	26.5	28.0	27.5	27.5	26.5	25.0	25.0
11	17.0	16.0	22.5	21.5	28.0	26.5	27.5	27.5	27.5	26.0	26.5	25.0
12	17.5	16.5	23.0	22.0	27.5	26.5	28.0	27.0	26.5	26.5	26.5	25.5
13	18.0	16.5	23.5	22.5	27.5	27.0	27.5	27.0	27.0	26.5	26.5	26.0
14	18.0	17.0	24.0	22.5	27.5	26.5	28.0	27.5	27.5	26.5	27.0	26.0
15	18.5	17.5	24.0	23.0	27.5	26.0	28.0	27.0	27.5	27.0	27.5	26.5
16	19.5	18.5	24.5	22.5	27.5	26.5	27.5	27.5	28.5	27.5	27.5	26.5
17	20.0	19.0	24.5	23.0	27.0	26.0	28.0	27.5	28.5	27.0	28.0	27.0
18	20.5	20.0	24.5	23.0	27.0	26.0	28.0	27.5	28.0	27.5	28.0	27.0
19	20.5	19.5	24.5	23.5	27.5	26.5	28.0	27.0	28.0	27.0	27.5	26.5
20	20.5	19.5	25.0	23.5	27.5	26.0	27.5	26.5	27.5	27.0	27.5	26.0
21	21.0	20.0	25.0	24.0	27.0	26.5	28.0	27.0	27.5	27.0	27.5	26.5
22	21.0	20.0	25.0	24.0	27.5	27.0	28.5	27.5	27.5	26.5	26.5	25.0
23	20.5	20.0	25.0	24.5	28.0	26.5	28.0	27.5	28.0	27.0	25.0	24.0
24	20.0	19.5	25.0	24.5	28.0	27.0	27.5	27.5	28.5	27.5	25.0	23.5
25	19.5	19.0	24.5	24.0	28.0	26.5	27.5	27.0	28.5	27.0	24.0	23.5
26	19.5	19.0	25.0	24.0	27.0	26.0	27.5	26.5	28.5	27.5	24.0	23.5
27	19.0	19.0	25.0	24.5	27.0	26.5	28.0	27.0	29.0	28.0	---	---
28	19.5	18.5	26.0	25.0	27.5	26.0	27.5	27.0	29.0	27.5	---	---
29	19.5	19.0	26.5	25.5	27.5	27.0	27.5	26.0	29.5	28.0	---	---
30	19.5	19.0	26.5	26.0	27.5	26.5	27.0	26.0	28.5	28.0	---	---
31	---	---	26.0	26.0	---	---	26.5	26.0	28.5	27.0	---	---
MONTH	21.0	16.0	26.5	19.0	28.0	25.5	29.5	26.0	29.5	26.0	28.5	23.5
YEAR	29.5	5.0										

02353000 FLINT RIVER AT NEWTON, GA.

LOCATION.--Lat 31°18'34", long 84°20'06", Baker-Mitchell County line, Hydrologic Unit 03130008, on downstream side of pier of bridge on State Highway 37 at Newton, 1 mi (1.6 km) downstream from Coolewahee Creek, and at mile 69.5 (111.8 km).
DRAINAGE AREA.--5,740 mi^2 (14,900 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1938 to September 1950 (monthly discharge only for some periods, published in WSP 1304), October 1956 to current year.
GAGE.--Water-stage recorder. Datum of gage is 110.20 ft (33.589 m) National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Prior to Nov. 12, 1956, nonrecording gage at same site and datum.
REMARKS.--Records good. Flow regulated by powerplants at Flint River Reservoir since 1921, capacity, 7,500 acre-ft (9.25 hm^3); and at Warwick Reservoir since 1930, capacity, about 35,000 acre-ft (43.2 hm^3). Normal operation of powerplants does not materially affect figures of monthly runoff.
AVERAGE DISCHARGE.--38 years, 6,970 ft^3/s (197.4 m^3/s), 16.49 in/yr (419 mm/yr).
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 66,600 ft^3/s (1,890 m^3/s) Mar. 9, 1966, gage height, 34.9 ft (10.64 m); minimum discharge, 790 ft^3/s (22.4 m^3/s) regulated Oct. 20, Nov. 10, 1940.
EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1893, 41.3 ft (12.59 m) Jan. 21, 1925, from floodmarks; discharge, 94,000 ft^3/s (2,660 m^3/s).
EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 20,000 ft^3/s (566 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 10	0500	*22600	640	18.36	5.596

Minimum discharge, 1,230 ft^3/s (34.8 m^3/s) Oct. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1460	2930	1690	9570	4960	7340	4620	13200	5070	3980	7480	2350
2	1340	1980	2250	9920	7300	7360	5520	13500	4710	4260	7530	2310
3	1290	1780	2490	10200	6380	6640	5090	14200	5400	4080	8400	2300
4	1240	2060	2750	10600	9980	6960	4880	10400	5930	3640	8000	2410
5	1240	2280	2920	14000	13000	8500	5190	7870	4650	3710	7870	2680
6	1250	2050	3010	17200	16200	7170	6120	6740	7390	3630	6520	2640
7	1240	1810	2890	17200	19200	8530	8060	5000	6070	2930	6180	2880
8	1230	1680	2960	17100	20300	9330	9710	5680	4860	3130	4530	2990
9	1270	1540	2810	15900	22700	8740	12000	5370	5130	3210	4190	3020
10	1280	1730	2670	15600	23200	10200	11300	5150	4210	3710	4300	2130
11	1260	2350	3240	15100	21300	11000	10400	5410	3360	3950	5940	3260
12	1250	2730	3070	12100	17300	10800	9150	5520	2650	4480	7540	3850
13	1250	2060	2780	11700	16400	9880	7070	5610	3460	5550	7170	3760
14	1250	2430	2060	10800	15400	9370	6960	4220	3430	5530	6960	4700
15	1250	2360	1950	9020	14100	6430	6140	4330	4390	5510	6870	3780
16	1260	1700	2630	8850	13300	7300	6070	3370	4100	5630	6800	3100
17	1550	1800	4240	8900	12300	7020	5980	3860	3950	6240	6790	3530
18	1690	2270	4120	9260	13500	6720	6150	3820	3370	7000	5320	3610
19	1410	2180	4830	8570	15700	6440	6400	3800	3610	6510	5790	3170
20	1760	2070	4760	7340	16900	6700	6860	3680	3610	6120	6080	2590
21	1970	1840	3320	7540	15400	7070	7510	3690	3140	5760	5860	3710
22	1700	1710	3970	8150	15400	6900	7790	4350	3700	4880	5210	3600
23	1490	1530	2770	7060	13100	6700	8380	4850	4070	5400	4860	2770
24	1400	1780	2520	7900	10600	6190	9180	5350	4690	7070	5690	2490
25	1400	2180	3130	7290	10300	5780	10800	7290	4410	7830	4070	2570
26	1950	2110	3960	6660	8270	6360	14500	7930	3020	7940	4060	2790
27	2420	2120	3960	7050	7910	6410	17800	8610	3450	7270	3860	2360
28	2420	1650	7090	5380	7850	6040	17000	8870	3200	6290	3420	2790
29	2580	1520	7880	6460	---	5590	13100	7970	4030	6360	3740	3750
30	2730	1500	8020	7220	---	5660	12400	7420	3980	8320	3520	3380
31	3010	---	8820	5540	---	4960	---	5780	---	7840	2630	---
TOTAL	49840	59730	115560	315180	388250	230090	262130	202840	127040	167760	177180	91270
MEAN	1608	1991	3728	10170	13870	7422	8738	6543	4235	5412	5715	3042
MAX	3010	2930	8820	17200	23200	11000	17800	14200	7390	8320	8400	4700
MIN	1230	1500	1690	5380	4960	4960	4620	3370	2650	2930	2630	2130
CFSM	.28	.35	.65	1.77	2.42	1.29	1.52	1.14	.74	.94	1.00	.53
IN.	.32	.39	.75	2.04	2.52	1.49	1.70	1.31	.82	1.09	1.15	.59

CAL YR 1981 TOTAL 1307840 MEAN 3583 MAX 25200 MIN 1230 CFSM .62 IN 8.48
WTR YR 1982 TOTAL 2186870 MEAN 5991 MAX 23200 MIN 1230 CFSM 1.04 IN 14.17

02353000 FLINT RIVER AT NEWTON, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1968 to June 1979, May 1981 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
OCT				
29...	1410	2660	14	101
29...	1415	2660	15	108
DEC				
02...	1220	2300	8	50
02...	1225	2300	8	50
JAN				
05...	1030	13500	38	1390
05...	1035	13500	35	1280
05...	1410	14800	42	1680
05...	1415	14800	43	1720
06...	0930	17300	46	2150
06...	0935	17300	39	1820
06...	1230	17300	36	1680
06...	1235	17300	34	1590
11...	1355	15100	23	938
11...	1400	15100	22	897
18...	1230	9340	18	454
18...	1235	9340	15	378
FEB				
05...	1010	12800	34	1180
05...	1015	12800	36	1240
06...	0905	15700	27	1140
06...	0910	15700	29	1230
07...	0930	19300	35	1820
07...	0935	19300	35	1820
08...	0815	19900	43	2310
08...	0820	19900	34	1830
10...	1300	23200	46	2880
10...	1305	23200	48	3010
12...	1015	17200	32	1490
12...	1020	17200	33	1530
15...	1000	13900	26	976
15...	1005	13900	22	826
MAR				
26...	1020	6340	15	257
26...	1025	6340	15	257
APR				
13...	1135	7790	17	358
13...	1140	7790	13	273
MAY				
13...	1025	5940	17	273
13...	1030	5940	17	273
AUG				
12...	1020	8270	27	603
12...	1025	8270	28	625

DATE	TIME	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM
OCT										
29...	1411	<1	1	2	2	31	93	99	100	--
29...	1412	<1	1	2	8	36	78	93	98	100
29...	1413	<1	1	5	16	50	88	97	100	--
JAN										
06...	1231	<1	<1	3	23	58	82	91	98	100
06...	1232	<1	<1	2	34	82	97	99	100	--
06...	1233	<1	<1	1	3	20	74	96	100	--
FEB										
08...	0816	<1	<1	1	36	88	99	100	--	--
08...	0817	<1	1	4	23	67	91	94	97	100
08...	0818	<1	<1	<1	3	30	92	97	99	100
AUG										
20...	1140	--	1	3	6	30	76	84	91	100
20...	1145	--	--	1	7	29	71	89	99	100
20...	1150	--	--	1	12	40	85	95	99	100
20...	1155	--	<1	2	33	83	98	99	100	--

02353500 ICHAWAYNOCHAWAY CREEK AT MILFORD, GA.

LOCATION.--Lat 31°22'58", long 84°32'52", Baker County, Hydrologic Unit 03130009, on downstream end of left bank pier of bridge on State Highway 216 at Milford, 2.2 mi (3.5 km) upstream from Alligator Creek, and 5.5 mi (8.8 km) upstream from Chickasawhatchee Creek.

DRAINAGE AREA.--620 mi^2 (1,610 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1905 to December 1907, October 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 150.3 ft (45.811 m) National Geodetic Vertical Datum of 1929 (levels by Georgia Department of Transportation). Aug. 29, 1905, to Dec. 31, 1907, nonrecording gage at several sites within 450 ft (137 m) of present site at various datums. Oct. 1, 1939, to Nov. 10, 1941, nonrecording gage at site 100 ft (30 m) downstream at present datum.

REMARKS.--Records good. Discharges during growing season affected by undetermined amount of irrigation withdrawal. Moderate diurnal fluctuation at low flow.

AVERAGE DISCHARGE.--45 years, 790 ft^3/s (22.37 m^3/s), 17.31 in/yr (440 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,900 ft^3/s (337 m^3/s) Jan. 27, 1978, gage height, 15.08 ft (4.596 m); minimum, 49 ft^3/s (1.39 m^3/s) July 27, 1981.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in July 1916 reached a stage of 17.2 ft (5.24 m), from information by local resident, discharge, 15,500 ft^3/s (439 m^3/s).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,000 ft^3/s (85.0 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 5	1500	*7370	209	11.27	3.435
Feb. 15	0500	3750	106	7.13	2.173
Aug. 1	0100	4460	126	8.05	2.454

Minimum discharge, 107 ft^3/s (3.03 m^3/s) Oct. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	113	286	254	1120	591	908	636	612	353	591	3820	275
2	112	262	278	1260	648	924	620	521	321	540	2660	268
3	113	250	354	1460	930	897	603	484	304	490	2010	275
4	110	235	424	1500	2480	859	597	452	280	465	1300	328
5	109	235	419	1560	6810	822	613	430	276	374	919	445
6	110	231	365	1750	5260	928	670	397	304	298	756	425
7	112	231	308	2210	3580	1300	759	368	284	279	628	378
8	116	220	281	2590	2490	1590	837	374	265	269	585	350
9	122	212	272	2090	1600	1780	897	367	224	271	589	323
10	135	207	260	1640	1510	1730	1010	362	202	277	703	325
11	211	230	261	1370	1440	1510	1060	348	180	293	746	419
12	285	342	263	1030	1420	1290	949	322	192	348	874	504
13	297	438	282	881	1900	1030	747	296	237	460	981	534
14	258	445	335	1020	2790	904	634	267	248	589	951	451
15	215	393	419	1240	3530	853	591	257	293	746	985	408
16	190	311	505	1390	2690	821	568	250	319	701	801	371
17	182	276	580	1380	2540	799	559	240	303	959	607	331
18	175	263	618	1180	2380	809	541	240	279	1030	555	310
19	170	258	562	1000	2760	870	525	238	300	1040	768	291
20	176	252	505	864	2630	870	537	284	405	803	971	348
21	184	268	433	772	2220	861	667	297	416	619	867	415
22	178	287	386	722	1700	876	819	319	379	562	758	427
23	172	266	354	701	1310	865	927	414	382	624	689	405
24	173	250	355	694	1100	858	858	556	388	1180	574	381
25	196	243	351	687	989	881	709	629	403	1880	498	338
26	278	246	358	687	934	853	814	601	402	1850	451	314
27	417	245	390	667	894	803	922	474	371	1210	407	300
28	526	244	420	622	891	753	956	584	421	1030	361	287
29	566	244	545	585	---	719	824	613	474	1160	339	281
30	476	250	702	561	---	679	722	580	538	1090	309	277
31	360	---	838	549	---	650	---	440	---	2730	284	---
TOTAL	6837	8120	12677	35782	60217	30292	22171	12616	9743	24758	27746	10784
MEAN	221	271	409	1154	2151	977	739	407	325	799	895	359
MAX	566	445	838	2590	6810	1780	1060	629	538	2730	3820	534
MIN	109	207	254	549	591	650	525	238	180	269	284	268
CFSM	.36	.44	.66	1.86	3.47	1.58	1.19	.66	.52	1.29	1.44	.58
IN.	.41	.49	.76	2.15	3.61	1.82	1.33	.76	.58	1.49	1.66	.65

CAL YR 1981 TOTAL 131489 MEAN 360 MAX 2920 MIN 50 CFSM .58 IN 7.89
WTR YR 1982 TOTAL 261743 MEAN 717 MAX 6810 MIN 109 CFSM 1.16 IN 15.70

02353500 ICHAWAYNOCHAWAY CREEK AT MILFORD, GA.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1970 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
APR								
06...	1330	674	81	79	7.3	7.6	17.5	7.2
SEP								
08...	1230	350	96	97	7.3	7.8	23.0	7.1

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (FTU)	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)
APR												
06...	70	14	34	2.0	12	.9	2.2	12	.2	.5	32	5.0
SEP												
08...	45	6.5	42	2.0	15	1.0	2.1	10	.1	.3	40	2.0

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)
APR											
06...	3.7	<.1	5.8	56	50	102	.46	.44	.060	.060	.47
SEP											
08...	4.5	<.1	7.4	72	57	68.0	.50	.50	<.010	<.010	--

DATE	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	NITRO-GEN DIS-SOLVED (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)
APR											
06...	.49	.53	.55	.99	.99	.040	.020	6.3	20	1	1
SEP											
08...	--	.70	.50	1.0	1.2	.020	<.010	4.7	20	1	1

DATE	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	ZINC, DIS-SOLVED (UG/L AS ZN)
APR											
06...	<1	10	<1	830	6	<1	44	<.1	<.1	<1	26
SEP											
08...	<1	10	3	730	3	2	38	<.1	.2	<1	<4

02356000 FLINT RIVER AT BAINBRIDGE, GA.

LOCATION.--Lat 30°54'41", long 84°34'48", Decatur County, Hydrologic Unit 03130008, on downstream side of highway bridge on Business Route 27, 0.2 mi (0.3 km) downstream from Seaboard Coast Line Railroad bridge, at mile 29.0, and 29.2 mi (47.0 km) upstream from Jim Woodruff Dam.

DRAINAGE AREA.--7,570 mi^2 (19,600 km^2), approximately.

PERIOD OF RECORD.--Discharge: October 1907 to December 1913, October 1928 to September 1971. Monthly discharge only for some periods, published in WSP 1304. Gage-height records collected at same site since 1904 are contained in reports of National Weather Service.

Chemical analyses: February 1968 to September 1973.

Annual peaks: Water years 1972-76, 1978-82.

Continuous gage-height record: August 1977 to current year.

GAGE.--Water-stage recorder. Datum of gage is 58.06 ft (17.697 m) National Geodetic Vertical Datum of 1929. Prior to Dec. 31, 1913, nonrecording gage at same site at datum 0.3 ft (0.09 m) higher. Oct. 1, 1928, to Jan. 14, 1929, nonrecording gage at present site and datum. Auxiliary water-stage recorder at site 6.4 mi (10.3 km) upstream Jan. 15, 1957, to September 1971.

REMARKS.--Flow regulated by powerplants at Flint River Reservoir since 1921, capacity, 7,500 acre-ft (9.25 hm^3); and at Warwick Reservoir since 1930, capacity, about 35,000 acre-ft (43.2 hm^3). Normal operation of powerplants does not materially affect figures of monthly runoff.

AVERAGE DISCHARGE.--49 years (water years 1908-13, 1929-71), 8,740 ft^3/s (247.5 m^3/s), 15.68 in/yr (398 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 83,200 ft^3/s (2,360 m^3/s) Mar. 21, 1929, gage height, 37.73 ft (11.500 m); minimum daily discharge, 1,340 ft^3/s (37.9 m^3/s) Sept. 25, 1963.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1893, 40.0 ft, present datum, Jan. 24, 1925, discharge, 101,000 ft^3/s (2,860 m^3/s), from rating curve extended above 70,000 ft^3/s (1,980 m^3/s) on basis of slope-conveyance studies.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 22,800 ft^3/s (646 m^3/s) Feb. 10, gage height, 22.61 ft (6.892 m).

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.68	16.82	17.55	19.97	19.18	19.74	19.37	20.60	19.57	19.01	20.15	19.06
2	17.80	16.73	17.78	20.05	19.39	19.88	19.47	20.64	19.68	18.96	20.11	19.18
3	17.73	16.74	17.92	20.00	19.77	19.89	19.54	20.73	19.67	18.78	20.09	19.33
4	17.48	16.84	18.13	20.22	20.00	19.70	19.16	20.75	19.79	18.55	20.09	19.47
5	17.26	16.96	18.19	20.23	20.35	19.97	19.15	20.13	19.81	18.48	20.00	19.17
6	17.34	17.08	18.13	20.86	21.34	20.00	19.24	19.83	19.49	18.37	19.92	18.90
7	17.35	17.09	18.11	21.15	22.13	19.86	19.75	19.79	19.33	18.27	19.95	19.05
8	17.28	16.94	18.03	21.36	22.32	20.07	20.05	19.91	19.18	18.09	19.57	19.15
9	17.27	16.79	18.03	21.28	22.42	20.22	20.19	19.65	19.24	18.04	19.20	19.28
10	17.28	16.76	17.91	21.08	22.57	20.28	20.52	19.65	19.71	18.46	19.30	19.37
11	17.02	16.93	17.97	21.00	22.46	20.46	20.31	19.60	19.92	18.33	19.57	19.41
12	16.78	17.07	18.03	20.70	22.00	20.45	19.96	19.63	19.65	18.25	19.96	19.28
13	16.72	17.12	17.96	20.44	21.37	20.38	19.76	19.74	19.29	18.66	19.98	19.12
14	16.73	17.20	17.92	20.49	21.43	20.10	19.81	19.69	19.01	18.68	19.93	19.11
15	16.76	17.17	18.08	20.13	21.29	19.71	19.84	19.59	18.73	19.16	19.75	19.41
16	16.77	17.11	18.02	20.19	21.42	19.62	19.79	19.16	18.52	19.45	19.42	19.42
17	16.76	17.11	18.10	20.12	21.21	19.81	19.85	18.72	18.50	19.63	19.63	19.65
18	16.63	17.12	18.40	20.05	21.32	19.92	19.53	18.85	18.71	19.60	19.58	19.48
19	16.35	17.22	18.55	20.07	21.46	19.82	19.27	18.96	18.87	19.53	19.69	19.21
20	16.21	17.39	18.56	20.03	21.74	19.92	19.49	19.12	18.65	19.59	19.72	18.93
21	16.27	17.51	18.54	20.04	21.76	19.74	19.83	19.28	18.40	19.75	19.89	19.00
22	16.34	17.39	18.59	20.04	21.56	19.65	19.89	19.34	18.55	19.71	19.56	19.15
23	16.37	17.28	18.79	20.04	21.34	19.76	19.82	19.16	18.85	19.82	19.20	19.16
24	16.32	17.36	18.80	19.86	20.75	19.82	20.09	19.08	19.09	19.81	19.29	19.19
25	16.26	17.40	18.75	19.66	20.42	19.76	20.33	19.48	19.20	19.64	19.39	19.13
26	16.26	17.48	18.73	19.73	20.01	19.85	20.49	19.73	19.17	19.54	19.28	18.86
27	16.35	17.60	18.72	19.76	19.99	19.73	21.07	19.93	18.96	19.79	19.30	18.62
28	16.50	17.64	18.75	19.75	19.86	19.43	21.41	20.09	18.76	19.87	19.41	18.63
29	16.63	17.52	19.28	19.71	---	19.22	21.16	20.15	18.78	19.87	19.07	18.78
30	16.74	17.43	19.45	19.91	---	19.33	20.59	19.90	19.02	20.03	18.78	18.91
31	16.82	---	19.69	19.63	---	19.37	---	19.55	---	20.19	18.89	---
MEAN	16.84	17.16	18.37	20.24	21.10	19.85	19.96	19.69	19.14	19.16	19.60	19.15
MAX	17.80	17.64	19.69	21.36	22.57	20.46	21.41	20.75	19.92	20.19	20.15	19.65
MIN	16.21	16.73	17.55	19.63	19.18	19.22	19.15	18.72	18.40	18.04	18.78	18.62

WTR YR 1982 MEAN 19.18 MAX 22.57 MIN 16.21

02356015 FLINT RIVER BELOW BAINBRIDGE, GA.

LOCATION.--Lat 30°53'34", long 84°36'38", Decatur County, Hydrologic Unit 03130008, at Bainbridge, 0.8 mi (1.3 km) downstream from State Docks, and at mile 26.5 (42.6 km).

DRAINAGE AREA.--7,570 mi^2 (19,600 km^2), approximately.

PERIOD OF RECORD.--July 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE (DEG C)	TEMPERATURE, AIR (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT									
07...	0950	--	193	7.8	7.8	20.5	24.0	8.2	92
NOV									
03...	1240	--	151	7.4	7.7	15.0	24.0	9.0	90
DEC									
14...	1320	--	145	--	7.5	8.0	22.0	10.6	91
JAN									
27...	1145	--	128	7.2	7.5	9.0	7.0	10.2	88
FEB									
09...	1240	--	64	--	7.0	12.0	20.0	10.1	95
MAR									
09...	1215	--	92	6.7	--	15.0	21.5	7.0	69
APR									
13...	1135	102	104	7.1	7.5	17.0	23.0	8.4	88
MAY									
11...	1125	--	140	7.2	7.6	22.0	29.5	7.2	83
JUN									
15...	0905	--	173	7.6	7.8	26.0	32.0	6.5	81
JUL									
20...	1045	--	108	7.2	7.5	27.5	31.0	6.3	80
AUG									
17...	1040	--	75	7.2	7.5	27.0	30.0	6.6	84
SEP									
28...	1050	169	171	7.3	--	23.5	27.5	7.5	89

DATE	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	ALKALINITY LAB (MG/L AS CACO3)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT									
07...	10	3	.9	430	67	1.0	.180	.140	1.0
NOV									
03...	30	5	1.2	430	44	.80	.310	.080	4.0
DEC									
14...	40	7	.6	230	40	.62	.260	.080	6.3
JAN									
27...	60	19	1.0	2300	34	.82	.310	.040	13
FEB									
09...	200	32	.9	1400	16	.36	.050	.080	12
MAR									
09...	70	14	.9	--	31	.52	.120	.050	6.0
APR									
13...	50	8	.7	50	35	.49	.140	.060	6.0
MAY									
11...	70	10	.5	220	53	.79	.220	.060	5.0
JUN									
15...	40	8	.6	50	64	1.1	.340	.060	3.0
JUL									
20...	70	17	.8	490	33	.61	.230	.080	2.5
AUG									
17...	60	11	.6	170	43	.59	.090	.060	3.0
SEP									
28...	10	5	.6	40	65	.95	.300	.090	4.0

02357000 SPRING CREEK NEAR IRON CITY, GA.

LOCATION.--Lat 31°02'23", long 84°44'18", Decatur County, Hydrologic Unit 03130010, on right bank 25 ft (7.620 m) downstream from county bridge, 1.5 mi (2.4 km) downstream from Aycock Creek, 1.5 mi (2.4 km) upstream from Dry Creek, 5.0 mi (8.0 km) north of Brinson, and 5.5 mi (8.8 km) northeast of Iron City.

DRAINAGE AREA.--485 mi^2 (1,260 km^2), approximately.

PERIOD OF RECORD.--October 1920 to June 1921, June 1937 to April 1971, water years 1972-76 (annual maximum), December 1976 to September 1978, June to September 1982.

GAGE.--Water-stage recorder. Datum of gage is 85.7 ft (26.121 m) National Geodetic Vertical Datum of 1929. Oct. 21, 1920, to June 30, 1921, nonrecording gage at site 125 ft (38.1 m) upstream at different datum, June 11, 1937, to Oct. 17, 1952, nonrecording gage at site 125 ft (38.1 m) upstream at present datum, Oct. 18, 1952, to April 1971, recording gage at same site and datum as present, May 1971 to Dec. 1976, nonrecording gage at same site and datum as present.

REMARKS.--Records good. Discharges during growing season affected by undetermined amount of irrigation withdrawal.

AVERAGE DISCHARGE.--34 years (1937-70, 1978), 484 ft^3/s (13.71 m^3/s), 13.55 in/yr (344.1 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,700 ft^3/s (501 m^3/s) Apr. 12, 1975, gage height, 19.43 ft (5.922 m); maximum gage height, 19.9 ft (6.066 m) Apr. 2, 1948; minimum discharge, 9.1 ft^3/s (0.26 m^3/s) Oct. 30 to Nov. 2, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--A discharge of 5.3 ft^3/s (0.15 m^3/s) was measured on July 13, 1981. The effect of irrigation is unknown on this measurement.

EXTREMES FOR JUNE 7 TO SEPT. 30, 1982.--Peak discharge above base of 2,000 ft^3/s (56.6 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
July 27	2300	*2180	61.7	11.56	3.523

Minimum discharge, 80 ft^3/s (2.27 m^3/s) June 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									---	176	990	288
2									---	174	979	259
3									---	159	1100	256
4									---	143	1080	256
5									---	135	878	257
6									---	137	744	286
7									142	135	616	307
8									130	141	575	300
9									118	144	613	275
10									107	160	660	304
11									98	183	580	421
12									89	228	541	486
13									83	280	542	461
14									81	293	616	438
15									90	242	1120	404
16									106	208	1320	360
17									120	273	1080	327
18									126	349	897	308
19									122	540	775	377
20									114	578	815	393
21									104	509	993	353
22									100	485	1240	307
23									132	472	1120	284
24									193	470	871	269
25									187	682	701	255
26									169	1490	582	244
27									169	2120	498	234
28									178	1950	435	225
29									192	1420	390	219
30									184	1090	350	212
31									---	1020	315	---
TOTAL									---	16386	24016	9365
MEAN									---	529	775	312
MAX									---	2120	1320	486
MIN									---	135	315	212
CFSM									---	1.09	1.60	.64
IN.									---	1.26	1.84	.72

LAKES IN APALACHICOLA RIVER BASIN

02334400 LAKE SIDNEY LANIER.--Lat 34°04'30", long 84°04'20", Forsyth County, Hydrologic Unit 03130001, at forebay of dam on Chattahoochee River, 2.5 mi (4.0 km) upstream from bridge on State Highway 20, 4.5 mi (7.2 km) northwest of Buford, Ga., and at mile 348.3 (560.4 km). DRAINAGE AREA, 1,040 mi^2 (2,690 km^2), approximately. PERIOD OF RECORD, January 1956 to current year. GAGE, water-stage recorder. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

Lake is formed by a rolled-fill earth dam; storage began in January 1956; dam completed in June 1957. Usable capacity, 1,686,000 acre-ft (2,080 hm^3) between elevations 1,035 and 1,085 ft (315.5 and 330.7 m). Dead storage, 868,000 acre-ft (1,070 hm^3). Lake is used for flood control and power. Records furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 2,205,200 acre-ft (2,720 hm^3) Apr. 14, 1964, elevation, 1,077.20 ft (328.331 m); minimum, after beginning operation, 1,329,300 acre-ft (1,640 hm^3) Dec. 23, 24, 1981, elevation, 1,052.66 ft (320.851 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 1,918,900 acre-ft (2,370 hm^3) June 4, 7, elevation, 1,070.05 ft (326.151 m); minimum, 1,329,300 acre-ft (1,640 hm^3) Dec. 23, 24, elevation, 1,052.66 ft (320.851 m).

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)	Change in contents (equivalent in cubic feet per second)
Sept. 30................	1059.27	1537100	-	-
Oct. 31................	1056.06	1433700	-103400	-1682
Nov. 30................	1053.20	1345500	-88200	-1482
Dec. 31................	1053.52	1355100	+9600	+156
CAL YR 1981	-	-	-305500	-422
Jan. 31................	1058.45	1510200	+155100	+2522
Feb. 28................	1065.00	1733100	+222900	+4013
Mar. 31................	1067.08	1808200	+75100	+1221
Apr. 30................	1069.17	1885500	+77300	+1299
May 31................	1069.84	1910900	+25400	+413
June 30................	1069.81	1909800	-1100	-18
July 31................	1069.63	1902900	-6900	-112
Aug. 31................	1069.18	1885900	-17000	-276
Sept. 30................	1067.54	1825200	-60700	-1020
WTR YR 1982	-	-	+288100	+398

02339400 WEST POINT LAKE.--Lat 32°55'05", long 85°11'17", Troup County, Hydrologic Unit 03130002, at forebay of dam on Chattahoochee River, 2.3 mi (3.7 km) upstream from Oseligee Creek, 3.0 mi (4.8 km) north of West Point, Ga., 3.2 mi (5.1 km) upstream from bridge on U.S. Highway 29, and at mile 201.4 (324.1 km). DRAINAGE AREA, 3,440 mi^2 (8,910 km^2), approximately. PERIOD OF RECORD, October 1974 to current year. GAGE, water-stage recorder. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

Lake is formed by concrete gravity dam with earth dikes at either side. Spillway, crest elevation, 597 ft (181.97 m) is equipped with six taintor gates 50 ft (15.2 m) wide by 41 ft (12.5 m) high. Storage began Oct. 16, 1974, and lake reached maximum power pool, 635 ft (193.55 m) on June 10, 1975. Total capacity at elevation, 641 ft (195.38 m); maximum flood control pool, 774,800 acre-ft (955 hm^3). Capacity at elevation, 635 ft (193.55 m), maximum power pool, 604,500 acre-ft (745 hm^3). Dead storage below elevation 620 ft (188.98 m), mimimum power pool, 298,400 acre-ft (368 hm^3). Lake is used for flood control and power. Records furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 690,700 acre-ft (852 hm^3) April 16, 1979, elevation, 638.17 ft (194.514 m); minimum, since first filling, 313,900 acre-ft (387 hm^3), Nov. 24, 1981, elevation, 620.98 ft (189.275 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 641,800 acre-ft (791 hm^3) May 27, elevation, 636.41 ft (191.228 m); minimum, 313,900 acre-ft (387 hm^3) Nov. 24, elevation, 620.98 (188.90 m).

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)	Change in contents (equivalent in cubic feet per second)
Sept. 30................	621.80	327300	-	-
Oct. 31................	622.20	334000	+6700	+109
Nov. 30................	622.70	342400	+8400	+141
Dec. 31................	628.00	442300	+99900	+1625
CAL YR 1981	-	-	+39900	+55
Jan. 31................	629.30	469700	+27400	+446
Feb. 28................	628.56	454000	-15700	-283
Mar. 31................	630.50	496000	+42000	+683
Apr. 30................	635.30	612300	+116300	+1954
May 31................	636.35	639800	+27500	+447
June 30................	635.78	624900	-14900	-250
July 31................	636.20	636100	+11200	+182
Aug. 31................	633.30	561700	-74400	-1210
Sept. 30................	629.80	480500	-81200	-1365
WTR YR 1982	-	-	+153200	+211

LAKES IN APALACHICOLA RIVER BASIN--Continued

02341000 LAKE HARDING.—Lat 32°39'46", long 85°05'27", Harris County, Hydrologic Unit 03130002, at forebay of dam on Chattahoochee River, 3.3 mi (5.3 km) upstream from Mulberry Creek, 15 mi (24 km) northwest of Columbus, Ga., and at mile 178.0 (286.4 km). DRAINAGE AREA, 4,240 mi^2 (11,000 km^2), approximately. PERIOD OF RECORD, October 1929 to current year. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by Georgia Power Co.).

Reservoir is formed by concrete gravity dam with earth fill abutments. Spillway, crest elevation, 500.0 ft (152.40 m) is equipped with 19 taintor gates 25 ft (7.62 m) wide by 21 ft (6.40 m) high and two trash gages 11 ft (3.35 m) wide by 9 ft (2.74 m) high. Storage began in 1926; water in reservoir first reached minimum pool elevation in 1926. Total capacity at elevation 521.0 ft (158.80 m), top of gates, is 181,000 acre-ft (223 hm^3), of which 136,000 acre-ft (168 hm^3) is usable storage. Reservoir is used for power development. Capacity curve and monthend elevations furnished by Georgia Power Co.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

Date	Elevation (feet)[†]	Contents (acre-feet)	Change in contents (acre-feet)	Change in contents (equivalent in cubic feet per second)
Sept. 30................	519.4	171000	-	-
Oct. 31................	519.0	169000	-2000	-33
Nov. 30................	518.8	168000	-1000	-17
Dec. 31................	518.9	168000	0	0
CAL YR 1981	-	-	+12000	+17
Jan. 31................	517.4	159000	-9000	-146
Feb. 28................	518.4	165000	+6000	+108
Mar. 31................	518.6	167000	+2000	+33
Apr. 30................	520.5	178000	+11000	+185
May 31................	518.9	168000	-10000	-163
June 30................	520.7	179000	+11000	+185
July 31................	520.2	176000	-3000	-49
Aug. 31................	519.4	171000	-5000	-81
Sept. 30................	515.4	149000	-22000	-370
WTR YR 1982	-	-	-22000	-30

[†] Elevation at 0700 on day following that shown in first column.

02343240 WALTER F. GEORGE LAKE.--Lat 31°37'27", long 85°04'03", Clay County, Hydrologic Unit 03130003, at forebay of dam on Chattahoochee River, 1.6 mi (2.6 km) upstream from bridge on State Highway 37, 1 mi (1.6 km) north of Ft. Gaines, Ga., and at mile 75.0 (120.7 km). DRAINAGE AREA, 7,460 mi^2 (19,300 km^2), approximately. PERIOD OF RECORD, May 1962 to current year. GAGE, water-stage recorder. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

Reservoir is formed by concrete gravity dam and navigation lock with earth dikes on either side. The non-overflow section at the dam includes a powerhouse. Filling began in May 1962. Power operations commenced on Mar. 13, 1963. The spillway, crest elevation, 163.0 ft (49.68 m), is equipped with 14 taintor gates 42 ft (12.80 m) wide by 29 ft (8.84 m) high. Total capacity at elevation 190.0 ft (57.91 m), full summer pool, 934,400 acre-ft (1,150 hm^3), of which 244,400 acre-ft (301 hm^3) between elevations 190.0 and 184.0 ft (57.91 and 56.08 m), minimum pool, is controlled storage. Lake is used for navigation and power. Records furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 993,700 acre-ft (1,230 hm^3) May 20, 1969, elevation, 191.28 ft (58.302 m); minimum, after first filling, 660,400 acre-ft (814 hm^3) Apr. 23, 1965, elevation, 183.17 ft (55.830 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 973,900 acre-ft (1,200 hm^3) Apr. 28, elevation, 190.86 ft (58.174 m); minimum, 719,500 acre-ft (887 hm^3) Oct. 9, elevation, 184.80 ft (56.327 m).

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)	Change in contents (equivalent in cubic feet per second)
Sept. 30................	185.20	734700	-	-
Oct. 31................	186.10	769500	+34800	+566
Nov. 30................	187.10	809600	+40100	+674
Dec. 31................	189.80	925400	+115800	+1883
CAL YR 1981	-	-	+194500	+269
Jan. 31................	189.20	898800	-26600	-433
Feb. 28................	188.62	873500	-25300	-456
Mar. 31................	188.40	864000	-9500	-154
Apr. 30................	190.10	938900	+74900	+1259
May 31................	189.52	912900	-26000	-423
June 30................	187.95	845000	-67900	-1141
July 31................	189.70	920900	+75900	+1234
Aug. 31................	188.90	885600	-35300	-574
Sept. 30................	188.50	868300	-17300	-291
WTR YR 1982	-	-	+133600	+185

LAKES IN APALACHICOLA RIVER BASIN--Continued

02357500 **LAKE SEMINOLE.**--Lat 30°42'33", long 84°51'45", Gadsden County, Fla., Hydrologic Unit 03130004, on right upstream lock wall of Jim Woodruff Dam on Chattahoochee River, 0.6 mi (1.0 km) upstream from bridge on U.S. Highway 90, and 1.5 mi (2.4 km) northwest of Chattahoochee, Fla. DRAINAGE AREA, 17,100 mi^2 (44,300 km^2), approximately. PERIOD OF RECORD, October 1954 to current year. Prior to October 1959, published as Jim Woodruff Reservoir at Chattahoochee. REVISIONS, WSP 1554: 1955-57. GAGE, water-stage recorder. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Prior to July 22, 1957, nonrecording gage at same site at datum 53.96 ft (16.45 m) higher; gage readings have been reduced to elevations above mean sea level.

Lake is formed by earthfill dam with concrete fixed-crest spillway, a center channel spillway with 16 vertical lift gates 40 ft (12.2 m) long and 30.5 ft (9.30 m) high, and a side channel navigation lock 82 ft (25 m) wide. Gates closed on May 20, 1954; filling of pool accomplished in several stages between that date and Feb. 4, 1957, when the pool first reached normal operating level, 77.0 ft (23.47 m). Total capacity at elevation 77.0 ft (23.47 m), normal pool, is 367,300 acre-ft (453 hm^3), of which 36,170 acre-ft (44.6 hm^3) between elevations 77.0 and 76.0 ft (23.47 and 23.16 m) is used for pondage. Lake is used for navigation and power. Records furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 433,000 acre-ft (534 hm^3) Apr. 7, 8, 1960, elevation, 78.66 ft (23.976 m); minimum after Feb. 4, 1957, 272,100 acre-ft (335 hm^3) Nov. 27, 1978, elevation, 74.18 ft (22.610 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 405,400 acre-ft (500 hm^3) June 11, elevation, 77.98 ft (23.768 m); minimum, 275,700 acre-ft (340 hm^3) Oct. 26, elevation, 74.30 ft (22.647 m).

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)	Change in contents (equivalent in cubic feet per second)
Sept. 30	75.82	324900	-	-
Oct. 31	74.98	297000	-27900	-454
Nov. 30	75.60	317400	+20400	+343
Dec. 31	77.69	393800	+76400	+1242
CAL YR 1981	-	-	+57700	+80
Jan. 31	77.18	374100	-19700	-320
Feb. 28	77.31	379100	+5000	+90
Mar. 31	77.34	380200	+1100	+18
Apr. 30	77.56	388700	+8500	+143
May 31	77.30	378700	-10000	-163
June 30	76.95	365400	-13300	-224
July 31	77.72	395000	+29600	+481
Aug. 31	77.08	370300	-24700	-402
Sept. 30	77.13	372200	+1900	+32
WTR YR 1982	-	-	+47300	+65

02380500 COOSAWATTEE RIVER NEAR ELLIJAY, GA.

LOCATION.--Lat 34°40'18", long 84°30'31", Gilmer County, Hydrologic Unit 03150102, on right bank 0.5 mi (0.8 km) downstream from State Highway 5, 2 mi (3.2 km) southwest of Ellijay, and 2.2 mi (3.5 km) downstream from confluence of Cartecay and Ellijay Rivers.
DRAINAGE AREA.--236 mi^2 (611 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1938 to December 1949, occasional low-flow measurements 1959, 1961-62. June 1963 to current year.
REVISED RECORDS.--WRD GA-80-1: Drainage area.
GAGE.--Water-stage recorder. Datum of gage is 1,216.04 ft (370.649 m) National Geodetic Vertical Datum of 1929. Prior to June 10, 1940, nonrecording gage at site 0.5 mi (0.8 km) upstream at datum 8.04 ft (2.45 m) higher.
REMARKS.--Records good.
AVERAGE DISCHARGE.--30 years (1938-49, 1963-82), 523 ft^3/s (14.81 m^3/s), 30.09 in/yr (764 mm/yr).
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,000 ft^3/s (481 m^3/s) Oct. 4, 1964, gage height, 17.63 ft (5.374 m); minimum, 101 ft^3/s (2.68 m^3/s) several days in October 1941.
EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1938, 20.7 ft (6.31 m) Mar. 19, 1951, from floodmark.
EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,500 ft^3/s (99.1 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 3	2200	*9330	264	11.30	3.444	Feb. 3	0600	7380	209	9.27	2.825
Jan. 21	1100	4820	137	6.59	2.009	July 11	0245	4540	129	6.42	1.957

Minimum discharge, 118 ft^3/s (3.34 m^3/s) Oct. 3, 5, 7-9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	128	156	926	961	979	1140	538	600	415	336	673	321
2	123	151	672	562	1190	1010	520	575	402	294	407	435
3	119	149	415	3690	5050	926	587	556	380	282	340	342
4	120	147	335	4980	2820	866	532	538	416	280	315	291
5	119	165	292	2600	1950	818	550	520	457	280	302	269
6	120	188	266	1740	1460	825	544	508	406	259	302	255
7	120	163	248	1110	1190	1660	508	526	369	253	292	249
8	119	152	233	785	958	1160	526	793	358	267	297	244
9	120	146	219	594	1410	961	575	575	349	309	417	237
10	153	145	209	544	1260	875	514	520	341	698	609	230
11	152	144	203	500	1040	825	496	503	336	1880	490	274
12	139	141	200	475	935	785	481	489	332	587	500	326
13	133	139	198	450	865	762	476	474	431	383	382	289
14	129	139	277	425	793	732	497	465	393	325	345	283
15	128	140	299	400	784	1070	480	455	341	304	323	260
16	128	138	264	385	1170	1100	465	441	327	622	306	243
17	128	140	251	370	1870	909	639	459	335	468	334	230
18	137	138	248	357	1400	833	647	507	350	399	343	225
19	144	136	245	400	1170	778	556	509	337	381	316	221
20	131	175	240	444	1010	747	544	461	314	342	290	219
21	129	168	264	3180	926	717	550	449	298	313	280	214
22	130	150	311	1920	842	695	510	439	294	292	271	209
23	200	144	461	1360	785	655	484	664	306	294	262	205
24	218	226	516	1100	755	639	474	816	288	298	290	203
25	199	206	724	883	717	631	943	586	279	347	297	218
26	384	175	600	770	747	616	1690	511	275	318	273	231
27	333	732	455	687	1940	581	1010	476	306	292	264	233
28	237	810	378	628	1450	562	817	501	339	299	318	220
29	192	346	338	581	---	550	709	456	484	338	269	208
30	172	432	309	556	---	550	639	435	460	343	253	206
31	162	---	809	858	---	544	---	414	---	541	250	---
TOTAL	4946	6381	11405	34295	37466	25522	18501	16221	10718	12624	10610	7590
MEAN	160	213	368	1106	1338	823	617	523	357	407	342	253
MAX	384	810	926	4980	5050	1660	1690	816	484	1880	673	435
MIN	119	136	198	357	717	544	465	414	275	253	250	203
CFSM	.68	.90	1.56	4.69	5.67	3.49	2.61	2.22	1.51	1.73	1.45	1.07
IN.	.78	1.01	1.80	5.41	5.91	4.02	2.92	2.56	1.69	1.99	1.67	1.20

CAL YR 1981 TOTAL 109953 MEAN 301 MAX 1970 MIN 119 CFSM 1.28 IN 17.33
WTR YR 1982 TOTAL 196279 MEAN 538 MAX 5050 MIN 119 CFSM 2.28 IN 30.94

02380500 COOSAWATTEE RIVER NEAR ELLIJAY, GA.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.—March 1968 to March 1972, December 1977 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
JAN					
28...	1545	600	--	14	23
FEB					
03...	0920	6410	--	990	17100
MAR					
05...	1145	817	12.0	16	35
APR					
16...	1550	462	--	15	19
MAY					
12...	0745	491	15.5	16	21
JUN					
24...	0850	287	20.5	13	10
AUG					
04...	0900	315	20.0	30	26
SEP					
15...	0935	261	20.5	18	13

02381600 FAUSETT CREEK NEAR TALKING ROCK, GA.

LOCATION.--Lat 34°34'13", long 84°28'08", Gilmer County, Hydrologic Unit 03150102, on right bank 25 ft (7.6 m) upstream from culvert on county road, 3.6 mi (5.8 km) upstream from mouth, and 4.5 mi (7.2 km) northeast of Talking Rock.
DRAINAGE AREA.--9.99 mi^2 (25.9 km^2).
PERIOD OF RECORD.--Annual maximum, water years 1966-74, October 1974 to current year.
GAGE.--Water-stage recorder. Altitude of gage is 1,320 ft (402 m), from topographic map.
REMARKS.--Records good except those for period of no gage-height record, Mar 23 to Apr. 16, Apr. 17 to May 12, and those affected by a beaverdam, Oct. 1 to Jan. 3, which are poor.
AVERAGE DISCHARGE.--8 years, 19.6 ft^3/s (0.555 m^3/s), 26.64 in/yr (677 mm/yr).
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,160 ft^3/s (89.5 m^3/s) May 29, 1973, gage height, 16.96 ft (5.169 m), from floodmarks; minimum daily discharge, 2.9 ft^3/s (0.082 m^3/s) Oct. 9, 1981.
EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 300 ft^3/s (8.50 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 3	1715	*1670	47.3	9.89	3.014	Feb. 3	0230	1050	29.7	7.47	2.277

Minimum daily discharge, 2.9 ft^3/s (0.082 m^3/s) Oct. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.0	5.0	22	30	26	33	17	19	13	13	14	9.4
2	3.0	4.8	15	20	108	29	16	18	12	12	11	13
3	3.1	4.7	11	495	375	26	20	17	12	12	10	9.9
4	3.1	4.7	8.0	163	70	25	18	16	20	11	8.8	7.7
5	3.1	6.4	7.0	36	45	23	20	16	13	9.6	8.6	7.3
6	3.0	7.4	6.5	20	36	29	19	15	12	9.1	8.6	7.3
7	3.0	5.5	6.0	17	30	71	17	20	12	9.0	9.5	7.2
8	3.0	5.2	5.6	14	27	38	20	35	11	12	13	6.9
9	2.9	5.0	5.4	13	55	30	22	23	11	12	26	6.6
10	4.5	4.9	5.2	12	42	27	20	20	11	46	14	6.6
11	3.7	4.8	5.1	11	32	26	18	18	11	22	13	6.9
12	3.5	4.7	5.0	15	28	24	17	16	11	15	12	6.8
13	3.4	4.6	5.0	13	26	23	17	15	15	12	9.8	7.7
14	3.3	4.6	8.0	11	25	22	18	14	11	11	9.2	7.2
15	3.4	4.5	7.5	11	25	27	17	14	11	11	8.4	6.8
16	3.4	4.5	6.5	10	59	24	16	14	11	19	8.2	6.5
17	3.4	4.4	5.8	9.7	82	23	24	14	14	24	9.6	6.3
18	3.4	4.3	5.4	9.5	48	22	26	15	13	17	8.5	6.3
19	4.3	4.2	5.2	15	38	21	20	14	11	14	8.3	6.2
20	3.7	5.0	7.7	12	32	21	18	13	11	12	7.8	6.2
21	3.7	4.6	8.4	113	29	21	19	13	10	12	7.6	6.3
22	3.6	4.4	8.0	36	27	21	18	14	11	11	7.6	6.2
23	13	4.3	11	32	25	20	16	30	11	11	7.4	6.2
24	7.0	6.8	15	24	23	20	22	18	9.7	11	8.2	6.0
25	10	5.5	30	19	21	19	50	14	9.5	11	8.7	6.8
26	17	5.0	20	17	24	19	60	14	9.3	11	7.4	10
27	10	20	13	15	70	18	40	13	11	10	8.1	7.2
28	7.0	12	10	13	44	18	30	23	17	18	8.1	6.4
29	6.0	7.5	9.0	12	---	18	25	14	33	14	7.3	6.1
30	5.5	17	8.5	11	---	17	21	13	20	12	7.3	6.0
31	5.2	---	60	44	---	17	---	13	---	17	7.3	---
TOTAL	155.2	186.3	345.8	1273.2	1472	772	681	525	387.5	440.7	303.3	216.0
MEAN	5.01	6.21	11.2	41.1	52.6	24.9	22.7	16.9	12.9	14.2	9.78	7.20
MAX	17	20	60	495	375	71	60	35	33	46	26	13
MIN	2.9	4.2	5.0	9.5	21	17	16	13	9.3	9.0	7.3	6.0
CFSM	.50	.62	1.12	4.11	5.27	2.49	2.27	1.69	1.29	1.42	.98	.72
IN.	.58	.69	1.29	4.74	5.48	2.87	2.54	1.95	1.44	1.64	1.13	.80

CAL YR 1981 TOTAL 3321.9 MEAN 9.10 MAX 75 MIN 2.9 CFSM .91 IN 12.37
WTR YR 1982 TOTAL 6758.0 MEAN 18.5 MAX 495 MIN 2.9 CFSM 1.85 IN 25.16

02382200 TALKING ROCK CREEK NEAR HINTON, GA.

LOCATION.--Lat 34°31'22", long 84°36'40", Pickens County, Hydrologic Unit 03150102, on left bank 300 ft (91 m) downstream from Scarecorn Creek, and 3.3 mi (5.3 km) northwest of Hinton.

DRAINAGE AREA.--119 mi^2 (308 km^2).

PERIOD OF RECORD.--November 1973 to current year.

REVISED RECORDS.--WRD GA-80-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 890 ft (271 m), from topographic map.

REMARKS.--Records good except those of no gage-height record, May 18 to June 24 and July 7 to Aug. 4, which are poor.

AVERAGE DISCHARGE.--8 years, 211 ft^3/s (5.976 m^3/s), 24.08 in/yr (612 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,100 ft^3/s (399 m^3/s) Mar. 4, 1979, gage height, 14.18 ft (4.322 m); minimum, 23 ft^3/s (0.65 m^3/s) Sept. 30, 1981.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 28, 1973, reached a stage of 15.45 ft (4.709 m), from floodmarks; discharge, 18,400 ft^3/s (521 m^3/s) from rating curve extended above 3,100 ft^3/s (87.8 m^3/s) on basis of slope-area measurements at gage heights 8.66 and 15.45 ft (2.640 and 4.709 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,500 ft^3/s (70.8 m^3/s), revised, and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 3	1800	*11800	334	13.04	3.975	Feb. 3	0315	7940	225	10.85	3.307

Minimum discharge, 24 ft^3/s (0.68 m^3/s) Oct. 2, 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	44	222	341	295	393	170	198	120	120	105	90
2	26	44	143	179	761	331	168	186	120	99	90	127
3	26	44	95	4680	4200	295	192	178	120	90	86	135
4	27	44	76	2430	956	270	168	175	180	90	82	90
5	27	55	66	769	689	248	198	172	140	96	78	79
6	27	67	60	499	401	251	186	170	130	80	80	72
7	27	49	59	265	291	710	170	175	120	78	76	71
8	26	46	56	199	255	400	190	346	110	120	85	68
9	26	45	54	169	495	303	219	213	110	160	249	65
10	35	45	53	143	425	264	180	186	110	250	169	62
11	36	43	51	130	324	244	171	175	105	170	180	62
12	33	43	50	160	277	228	162	170	120	135	212	69
13	32	42	50	160	254	216	157	162	170	115	124	68
14	30	41	79	135	225	207	212	155	130	105	103	77
15	29	41	89	120	223	250	185	150	110	110	87	72
16	30	41	76	110	523	254	170	145	105	170	88	63
17	30	41	69	105	791	234	297	140	150	210	282	59
18	33	40	65	100	481	228	300	150	130	170	165	57
19	37	39	60	145	362	213	218	140	115	135	120	55
20	32	46	72	150	301	207	224	130	110	120	105	53
21	32	41	86	744	274	201	215	130	100	110	98	52
22	32	38	83	403	245	195	190	170	120	100	93	51
23	78	38	114	359	224	183	171	280	100	97	88	49
24	59	58	128	307	216	180	164	200	95	95	108	50
25	52	48	264	237	203	183	640	160	92	95	106	54
26	133	43	189	200	232	180	890	140	90	95	92	73
27	105	99	132	172	982	172	420	160	99	92	86	88
28	64	142	108	162	585	170	318	400	125	140	104	61
29	52	67	93	152	---	172	250	200	153	120	88	55
30	49	136	83	148	---	172	222	150	177	105	80	53
31	46	---	405	265	---	171	---	130	---	125	82	---
TOTAL	1299	1610	3230	14138	15490	7725	7417	5636	3656	3797	3591	2080
MEAN	41.9	53.7	104	456	553	249	247	182	122	122	116	69.3
MAX	133	142	405	4680	4200	710	890	400	180	250	282	135
MIN	26	38	50	100	203	170	157	130	90	78	76	49
CFSM	.35	.45	.87	3.83	4.65	2.09	2.08	1.53	1.03	1.03	.98	.58
IN.	.41	.50	1.01	4.42	4.84	2.41	2.32	1.76	1.14	1.19	1.12	.65

CAL YR 1981 TOTAL 35856 MEAN 98.2 MAX 858 MIN 26 CFSM .83 IN 11.21
WTR YR 1982 TOTAL 69669 MEAN 191 MAX 4680 MIN 26 CFSM 1.61 IN 21.78

02382500 COOSAWATTEE RIVER AT CARTERS, GA.

LOCATION.--Lat 34°36'13", long 84°41'44", Murray County, Hydrologic Unit 03150102, on downstream side of left bank pier of bridge on U.S. Highway 411 at Carters, 200 ft (61 m) upstream from Louisville & Nashville Railroad bridge, 0.4 mi (0.6 km) downstream from Carters re-regulation dam, and 0.6 mi (1.0 km) downstream from Talking Rock Creek.

DRAINAGE AREA.--521 mi^2 (1,350 km^2).

PERIOD OF RECORD.--August 1896 to December 1908, October 1918 to September 1923, October 1961 to August 1972, October 1974 to current year.

REVISED RECORDS.--WRD GA-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 650.67 ft (198.324 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to September 1923, nonrecording gage at site 0.4 mi (0.6 km) upstream at datum 2.00 ft (0.61 m) higher.

REMARKS.--Records good. Flow regulated by Carters Lake and Carters re-regulation dam since November 1974. (See "Lakes and Reservoirs in Mobile River Basin," stations 02381400 and 02382400.) Records of chemical analyses for the water years 1968-74 are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--35 years (1896-1908, 1918-23, 1961-71, 1974-82), 1,233 ft^3/s (34.92 m^3/s), 32.14 in/yr (816 mm/yr), adjusted for storage since 1975.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 28,500 ft^3/s (807 m^3/s) Nov. 19, 1906, gage height, 30.6 ft (9.33 m), present datum; minimum daily, 122 ft^3/s (3.46 m^3/s), regulated Nov. 15, 1974; minimum discharge observed prior to regulation, 184 ft^3/s (5.21 m^3/s) several days during September to November 1904.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 29 or 30, 1951, reached a stage of about 36 ft (11.0 m), from floodmarks; discharge, 57,000 ft^3/s (1,610 m^3/s), from rating curve extended above 24,000 ft^3/s (680 m^3/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,760 ft^3/s (163 m^3/s) Feb. 2, gage height, 14.47 ft (4.410 m); minimum daily, 227 ft^3/s (6.43 m^3/s) Oct. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1310	267	647	1530	1260	2140	737	1060	1020	1060	740	730
2	542	230	1510	1520	2860	3470	644	991	834	970	874	740
3	528	259	1190	2330	4510	3570	698	1040	747	615	1030	740
4	487	281	818	4030	4460	3500	693	1090	658	478	1080	563
5	496	275	486	2980	4420	3500	1240	1160	569	437	976	517
6	501	282	565	2940	3600	1150	1920	1250	572	573	815	517
7	474	282	1480	3340	2620	1260	1920	777	668	588	601	540
8	526	243	321	4540	3740	1880	1570	1370	788	648	565	679
9	526	228	284	3050	4550	2410	1470	1580	815	482	551	792
10	516	261	281	3410	4590	2390	727	1500	779	380	721	625
11	479	246	355	4290	4610	2330	775	1450	790	936	1020	426
12	503	276	345	4970	4510	1880	1520	1240	791	1580	1560	431
13	545	301	332	3210	2020	1550	1320	984	727	1420	1840	451
14	517	294	378	1560	1900	1320	1330	670	758	1210	974	459
15	534	262	542	616	1340	1520	1160	654	837	1180	688	706
16	430	239	655	563	1640	2270	1010	594	897	1100	612	2110
17	291	261	651	555	2270	2430	841	575	944	811	683	1830
18	256	274	1330	1250	2390	2370	1170	652	889	690	720	1010
19	227	282	392	1600	2520	1880	1530	693	647	824	732	427
20	391	277	390	1650	1230	1270	1900	755	488	875	686	371
21	281	289	390	1870	1030	1150	1910	872	388	903	519	367
22	294	262	338	1900	1070	1620	1320	901	400	872	424	359
23	283	243	387	1830	1780	1790	1280	812	612	839	377	362
24	279	256	409	1670	2620	1720	1020	1160	719	742	469	428
25	250	298	947	2060	2600	1690	1090	1730	568	628	538	395
26	513	307	1720	2830	2640	1520	1620	1690	489	657	691	372
27	263	304	1470	3410	1630	1190	1810	1420	447	566	809	389
28	266	243	992	3430	702	1160	1820	1120	678	619	690	388
29	278	259	583	1730	---	1460	1980	891	699	742	475	378
30	306	239	261	341	---	1990	1750	849	989	836	599	333
31	297	---	734	364	---	1680	---	1010	---	829	714	---
TOTAL	13389	8020	21183	71369	75112	61060	39775	32540	21207	25090	23773	18435
MEAN	432	267	683	2302	2683	1970	1326	1050	707	809	767	615
MAX	1310	307	1720	4970	4610	3570	1980	1730	1020	1580	1840	2110
MIN	227	228	261	341	702	1150	644	575	388	380	377	333
MEAN†	299	428	732	2342	2841	1731	1408	1097	707	801	764	478
CFSM†	.57	.82	1.40	4.50	5.45	3.32	2.70	2.11	1.36	1.54	1.47	.92
IN†	.66	.92	1.62	5.18	5.68	3.83	3.01	2.43	1.51	1.77	1.69	1.02

CAL YR 1981 TOTAL 223187 MEAN 611 MAX 2660 MIN 227 MEAN† 607 CFSM† 1.17 IN† 15.81
WTR YR 1982 TOTAL 410953 MEAN 1126 MAX 4970 MIN 227 MEAN† 1126 CFSM† 2.16 IN† 29.34

† ADJUSTED FOR CHANGE IN CONTENTS IN CARTERS LAKE AND CARTERS RE-REGULATION DAM.

02383500 COOSAWATTEE RIVER NEAR PINE CHAPEL, GA.

LOCATION.--Lat 34°33'51", long 84°49'59", Gordon County, Hydrologic Unit 03150102, on right bank at downstream side of highway bridge, 1.4 mi (2.3 km) downstream from Sallacoa Creek, 8.7 mi (14.0 km) upstream from confluence with Conasauga River, and 2.4 mi (3.9 km) east of Pine Chapel.

DRAINAGE AREA.--831 mi^2 (2,150 km^2).

PERIOD OF RECORD.--October 1938 to current year. Prior to October 1976, published as Coosawattee River at Pine Chapel, Ga. Monthly discharge only for some periods, published in WSP 1304.

REVISED RECORDS.--WRD GA-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 616.16 ft (187.806 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Since October 1, 1976, auxiliary water-stage recorder at highway bridge 2.2 mi (3.5 km) downstream. Prior to Feb. 23, 1940, nonrecording gage at current auxiliary gage site and same datum. Feb. 23, 1940, to April 8, 1975, water-stage recorder at current auxiliary gage site and same datum. Feb. 23, 1940, to April 8, 1975 auxiliary water-stage recorder at current gage site. April 9, 1975, to Sept. 30, 1976, water-stage recorder on Oostanaula River at Resaca used as auxiliary gage, due to bridge construction.

REMARKS.--Records good except those for period of no base gage record, Sept. 19-30, which are fair. Flow regulated by Carters Lake and re-regulation dam. (See "Lakes and Reservoirs in Mobile River Basin," stations 02381400 and 02382400.)

AVERAGE DISCHARGE.--44 years, 1,498 ft^3/s (42.42 m^3/s), 24.48 in/yr (622 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 40,200 ft^3/s (1,140 m^3/s) Mar. 30, 1951, gage height, 34.2 ft (10.42 m) at current base gage, 30.8 ft (9.39 m) at current auxiliary gage; minimum daily, 188 ft^3/s (5.32 m^3/s) Sept. 11, 1976, minimum unregulated daily discharge, 220 ft^3/s (6.23 m^3/s) Oct. 26, 1941.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 8, 1938, reached a stage of 30.0 ft (9.14 m) from gage reading at current auxiliary gage, discharge 34,000 ft^3/s (963 m^3/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 19,800 ft^3/s (561 m^3/s) Jan. 4, maximum gage height, 28.77 ft (8.769 m) Jan. 4; minimum daily discharge, 279 ft^3/s (7.90 m^3/s) Oct. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	890	365	1270	3130	1940	2890	1250	1770	1260	1370	979	818
2	968	322	1850	1960	3480	4360	825	1490	1120	1210	903	927
3	569	316	1440	4880	12700	4250	1000	1460	936	915	1140	970
4	520	354	1200	16800	13400	4130	952	1500	910	636	1170	725
5	523	370	617	11000	8610	3980	1200	1490	868	542	1180	665
6	530	373	648	6710	6640	2490	2160	1600	777	650	927	635
7	518	382	1190	5110	4540	3410	2210	1330	797	702	752	620
8	535	344	953	5500	4030	3650	2010	1850	914	743	674	680
9	565	300	416	4620	5860	3290	1910	2230	987	689	733	870
10	542	333	402	3800	6830	3100	1510	1880	979	505	881	774
11	537	330	425	4410	5910	3010	963	1900	923	688	1360	543
12	525	334	474	5160	5340	2490	1560	1640	974	1700	1750	575
13	562	363	434	4350	3530	2070	1970	1480	995	1620	2180	545
14	558	373	562	2320	2400	1780	1760	1010	928	1460	1430	575
15	559	347	728	1040	1870	1870	3120	958	985	1280	877	592
16	546	304	842	918	2950	2860	1770	891	1060	1410	708	1840
17	361	325	788	874	4410	3000	1820	817	1100	1150	1010	2230
18	327	342	1170	1220	4520	3640	3040	959	1120	982	1180	1310
19	279	358	885	1910	3610	2740	2410	1250	916	987	970	835
20	345	382	511	2010	2460	1980	2710	1040	676	1030	870	395
21	406	405	504	4000	1710	1650	2940	1120	541	1070	725	378
22	348	388	538	3310	1650	1850	2210	1190	496	1090	560	378
23	362	346	655	2990	1890	2210	1850	1110	632	1230	530	413
24	372	365	820	2970	3020	2070	1650	1370	851	1050	635	430
25	372	408	1490	2550	3040	1990	2140	1970	747	827	676	498
26	568	419	2200	3220	3130	1950	7340	2010	627	821	775	448
27	640	671	1940	1940	5980	1480	5180	1780	557	668	872	448
28	434	1010	1270	3930	4360	1410	3210	1440	741	719	918	448
29	391	470	1070	3050	---	1460	2790	1180	936	1020	650	448
30	388	599	482	823	---	2230	2560	1070	1340	969	554	445
31	396	---	1640	1050	---	2030	---	1150	---	1010	797	---
TOTAL	15436	11998	29414	119555	129810	81370	68020	43935	26693	30753	29366	21458
MEAN	498	400	949	3857	4636	2625	2267	1417	890	992	947	715
MAX	968	1010	2200	16800	13400	4360	7340	2230	1340	1700	2180	2230
MIN	279	300	402	823	1650	1410	825	817	496	505	530	378

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CAL YR 1981  TOTAL  294798   MEAN   808   MAX   5480   MIN 279   MEAN†   804   CFSM†  0.97   IN†  13.13
WTR YR 1982  TOTAL  607808   MEAN  1665   MAX  16800   MIN 279   MEAN†  1665   CFSM†  2.00   IN†  27.20
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† ADJUSTED FOR CHANGE IN CONTENTS IN CARTERS LAKE AND CARTERS RE-REGULATION DAM.

02383540 COOSAWATTEE RIVER NEAR CALHOUN, GA.

LOCATION.--Lat 34°32'28", long 84°54'03", Gordon County, Hydrologic Unit 03150102, at bridge on State Highway 225, 0.2 mi (0.3 km) upstream from confluence with Conasauga River, and 4.0 mi (6.4 km) northeast of Calhoun.
DRAINAGE AREA.--861 mi^2 (2,230 km^2), revised.
PERIOD OF RECORD.--August 1974 to current year.
REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey. Flow regulated by Carters Lake and Carters re-regulation reservoir. (See "Lakes and Reservoirs in Mobile River Basin", stations 02381400 and 02382400.) Discharge obtained from gaging station 02383500, Coosawattee River near Pine Chapel, Ga.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	TEMPER-ATURE, AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT 27...	1145	690	85	84	7.4	--	16.0	20.0	8.1	--
NOV 23...	1200	353	--	82	7.3	7.6	9.0	11.5	10.4	91
DEC 29...	1215	1190	--	72	--	7.4	6.5	6.0	11.7	96
JAN 27...	1230	3900	--	54	7.1	7.1	5.0	5.5	11.9	93
FEB 24...	1345	3000	48	51	6.8	7.2	9.0	25.0	11.3	99
MAR 31...	1245	2110	53	53	7.4	7.1	12.0	24.5	10.7	99
APR 29...	1130	2750	56	--	7.1	7.1	14.0	17.0	9.0	89
MAY 25...	1030	1980	48	46	7.2	7.1	17.0	27.5	9.4	99
JUN 29...	1030	916	64	66	7.2	--	22.0	23.0	7.9	93
JUL 28...	1130	746	54	59	7.5	7.4	24.5	32.5	7.8	94
AUG 25...	1030	690	--	72	7.0	7.4	23.5	26.5	7.1	86
SEP 29...	1115	448	68	68	7.5	7.3	19.5	22.5	8.3	92

DATE	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	ALKA-LINITY LAB (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 27...	17	1.3	4300	36	4.0	32	.11	<.020	.050	5.5
NOV 23...	4	.6	40	30	.00	31	.12	.060	<.020	5.3
DEC 29...	10	1.6	--	26	3.0	23	.18	.100	.020	2.0
JAN 27...	20	.5	80	30	16	14	.26	.020	.040	11
FEB 24...	18	.5	80	28	11	17	.23	.100	.020	<1.0
MAR 31...	9	1.4	20	18	.00	19	.20	.020	<.020	<1.0
APR 29...	15	1.2	170	20	.00	21	.18	.060	.060	--
MAY 25...	15	.8	490	22	3.0	19	.17	<.020	.040	1.0
JUN 29...	13	1.0	230	24	.00	40	.16	.020	.060	1.0
JUL 28...	9	.9	790	30	6.0	24	.14	<.020	.020	--
AUG 25...	33	1.4	940	48	18	30	.20	.040	.050	<1.0
SEP 29...	5	1.5	80	26	.00	27	.20	.020	<.020	2.0

02384500 CONASAUGA RIVER NEAR ETON, GA.

LOCATION.--Lat 34°49'40", long 84°51'03", Murray-Whitfield County line, Hydrologic Unit 03150101, at downstream side of right bank pier of bridge on State Highway 286, 3.4 mi (5.5 km) upstream from Mill Creek, 5.2 mi (8.4 km) west of Eton, and at mile 42.7 (68.7 km).

DRAINAGE AREA.--252 mi^2 (653 km^2).

PERIOD OF RECORD.--Water years 1954-58, 1963-81 (annual maximum), October 1981 to September 1982.

GAGE.--Water-stage recorder. Datum of gage is 672.64 ft (205.021 m), National Geodetic Vertical Datum of 1929. June 26, 1953, to September 30, 1958, and August 16, 1962, to September 30, 1981, crest-stage gage at site 75 ft (23 m) downstream at datum 3.00 ft (0.914 m) higher.

REMARKS.--Records fair except those for period of no gage-height record, Jan. 12-26, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 25,200 ft^3/s (714 m^3/s) Mar. 17, 1973, gage height, 18.59 ft (5.666 m), present datum; minimum discharge, 64 ft^3/s (1.81 m^3/s) Oct. 8, 9, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,800 ft^3/s (108 m^3/s) and maximum (*):

Date	Time	Discharge		Gage height		Date	Time	Discharge		Gage height	
		(ft^3/s)	(m^3/s)	(ft)	(m)			(ft^3/s)	(m^3/s)	(ft)	(m)
Jan. 4	2400	*11200	317	14.91	4.545	Feb. 4	0400	6980	198	13.25	4.039

Minimum discharge, 64 ft^3/s (1.81 m^3/s) Oct. 8, 9, gage height, 2.31 ft (0.704 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68	137	1430	1860	1450	1280	272	353	158	220	479	128
2	68	127	1430	986	1180	998	255	311	157	163	303	886
3	66	121	661	2050	4400	853	269	283	143	131	196	900
4	67	117	417	8390	5810	737	267	257	134	117	152	336
5	67	146	316	7460	2070	640	247	239	145	111	130	220
6	67	323	299	2170	1210	599	266	224	141	108	119	173
7	65	205	290	1120	935	2160	230	215	126	100	113	149
8	64	159	240	831	762	2340	239	339	122	141	107	136
9	65	142	181	668	1550	1150	395	309	119	118	126	126
10	74	131	162	560	2360	859	306	243	115	128	336	120
11	81	123	151	450	1360	712	265	222	114	183	364	117
12	93	117	144	550	983	623	245	206	115	233	419	138
13	80	112	140	490	869	553	230	192	148	175	262	140
14	74	109	354	430	708	507	238	182	197	138	195	120
15	72	106	472	380	623	1430	228	174	134	118	163	116
16	71	106	322	330	1110	2910	211	166	134	115	147	105
17	70	108	267	290	2420	1410	300	159	193	154	163	99
18	73	108	253	260	2190	1030	764	178	185	188	194	95
19	75	107	224	350	1250	774	518	217	139	179	168	93
20	75	104	186	600	926	661	396	205	123	180	146	91
21	74	106	157	1300	780	581	374	180	115	139	134	88
22	74	105	236	2500	655	547	336	172	111	139	124	86
23	88	100	446	3400	558	467	279	176	109	159	125	83
24	145	107	881	2000	505	428	254	437	106	118	208	83
25	144	122	1570	1100	457	401	362	290	100	200	145	83
26	240	121	1480	800	509	431	1150	237	99	250	122	86
27	891	167	845	650	2030	363	903	216	133	164	112	95
28	538	437	584	561	2420	330	718	236	116	128	206	105
29	263	356	448	497	---	295	530	228	150	144	169	90
30	190	399	359	451	---	284	426	190	210	185	120	85
31	155	---	929	666	---	276	---	169	---	212	107	---
TOTAL	4237	4728	15874	44150	42080	26629	11473	7205	4091	4838	5854	5172
MEAN	137	158	512	1424	1503	859	382	232	136	156	189	172
MAX	891	437	1570	8390	5810	2910	1150	437	210	250	479	900
MIN	64	100	140	260	457	276	211	159	99	100	107	83
CFSM	.54	.63	2.03	5.65	5.96	3.41	1.52	.92	.54	.62	.75	.68
IN.	.63	.70	2.34	6.52	6.21	3.93	1.69	1.06	.60	.71	.86	.76

WTR YR 1982 TOTAL 176331 MEAN 483 MAX 8390 MIN 64 CFSM 1.92 IN 26.03

02384748 CONASAUGA RIVER NEAR DALTON, GA.

LOCATION.--Lat 34°47'20", long 84°52'30", Whitfield-Murray County line, Hydrologic Unit 03150101, at Dalton water works intake, 0.4 mi (0.6 km) upstream from U.S. Highway 76, and 5.5 mi (8.8 km) east of Dalton.
DRAINAGE AREA.--308 mi^2 (798 km^2).
PERIOD OF RECORD.--July 1974 to current year.
REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	TEMPER-ATURE, AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT										
27...	1500	850	99	97	7.4	7.2	14.0	19.0	8.0	--
NOV										
23...	1700	40	--	130	7.6	7.7	6.0	9.5	11.0	89
DEC										
29...	1530	440	--	99	7.2	7.6	8.0	9.5	11.1	94
JAN										
27...	1450	640	--	95	7.7	7.4	3.5	8.5	12.2	92
FEB										
25...	0900	500	--	80	--	7.6	11.0	5.5	9.8	89
APR										
01...	0900	320	110	115	7.4	7.6	14.5	15.5	8.8	87
29...	0815	570	79	--	7.3	7.5	15.0	19.0	8.5	86
MAY										
26...	0715	300	76	74	7.2	7.0	20.5	21.5	7.4	84
JUN										
29...	0900	95	120	124	7.3	7.5	24.0	24.0	6.4	78
JUL										
29...	0700	82	87	87	7.5	7.5	26.0	24.0	6.3	78
AUG										
25...	0700	115	--	105	7.1	7.5	23.0	23.0	6.7	80
SEP										
29...	0900	48	115	115	7.6	7.7	17.5	19.5	7.9	84

DATE	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, CON-FIRMED (MPN)	COLI-FORM, FECAL, EC BROTH (MPN)	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	ALKA-LINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT												
27...	64	2.2	43000	4300	46	7.0	39	46	.10	<.020	.120	9.5
NOV												
23...	5	.6	230	<30	54	.00	58	4	.10	<.020	<.020	1.6
DEC												
29...	10	1.3	--	--	42	3.0	39	20	.24	.080	.020	10
JAN												
27...	16	.4	4600	70	48	11	37	6	.42	.030	.040	9.0
FEB												
25...	8	.5	940	20	54	13	41	16	.31	.020	<.020	5.0
APR												
01...	5	1.0	1300	170	48	.00	53	14	.35	.040	<.020	1.0
29...	12	1.3	4900	790	34	.00	35	11	.12	.040	.020	--
MAY												
26...	90	1.5	230000	7900	62	32	30	116	.27	.060	.260	5.0
JUN												
29...	19	.6	4900	270	50	.00	55	28	.27	.070	.060	1.0
JUL												
29...	24	.7	3300	340	70	30	40	36	.14	.020	.040	--
AUG												
25...	37	1.1	33000	3300	46	.00	47	45	.24	.100	.130	2.0
SEP												
29...	10	1.1	3300	230	54	.00	54	14	.12	<.020	.020	2.0

02385800 HOLLY CREEK NEAR CHATSWORTH, GA.

LOCATION.--Lat 34°43'00", long 84°46'12", Murray County, Hydrologic Unit 03150101, on right bank 100 ft (30 m) upstream from bridge on county road, 3 mi (4.8 km) upstream from Rock Creek, and 3.3 mi (5.3 km) south of Chatsworth.
DRAINAGE AREA.--64.0 mi^2 (166 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1960 to current year.
REVISED RECORDS.--WRD GA-80-1: Drainage area.
GAGE.--Water-stage recorder. Altitude of gage is 690 ft (210 m), from topographic map.
REMARKS.--Records good. Low flow affected by withdrawals and return flow by the city of Chatsworth. Records of chemical analyses for the water years 1968-74 are published in reports of the U.S. Geological Survey.
AVERAGE DISCHARGE.--22 years, 122 ft^3/s (3.455 m^3/s), 25.89 in/yr (658 mm/yr).
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,110 ft^3/s (258 m^3/s) Mar. 4, 1979, gage height, 12.54 ft (3.822 m); minimum daily, 1.5 ft^3/s (0.042 m^3/s) Sept. 14, 16, 17, 1980.
EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,500 ft^3/s (42.5 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 4	0700	*4430	125	10.53	3.210	Feb. 3	1500	3180	90.1	9.73	2.966
Jan. 21	2200	2170	61.5	8.99	2.740						

Minimum daily discharge, 6.1 ft^3/s (0.173 m^3/s) Oct. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.1	26	564	681	387	424	71	83	37	41	38	38
2	7.0	24	386	236	412	282	67	75	34	27	22	398
3	7.1	23	149	1110	2510	224	74	69	31	22	16	416
4	7.4	21	97	3510	1080	188	65	63	36	19	14	117
5	6.4	39	73	1020	516	164	66	59	36	18	12	68
6	6.2	48	61	415	326	166	65	56	29	16	12	49
7	6.9	32	54	244	228	772	59	54	26	18	12	39
8	8.0	27	50	175	189	475	63	149	25	19	14	35
9	6.1	24	44	142	517	260	74	72	24	22	25	31
10	12	23	40	116	574	202	60	59	23	52	195	29
11	17	21	37	105	320	172	57	54	23	31	79	28
12	12	20	36	97	226	152	54	49	22	35	63	37
13	10	19	35	93	202	136	52	46	93	23	35	29
14	8.3	19	150	88	164	125	58	43	38	18	28	29
15	8.3	18	135	82	148	322	53	41	28	17	24	26
16	8.0	17	87	78	504	631	49	39	26	24	20	23
17	11	18	71	76	940	322	144	38	49	30	162	21
18	13	18	64	75	569	230	182	42	32	34	96	21
19	18	16	53	96	332	181	101	48	27	22	47	20
20	14	18	42	99	234	156	84	39	23	19	33	19
21	13	19	48	1280	199	137	89	41	22	17	26	18
22	12	16	70	1030	166	122	72	36	21	15	22	17
23	21	15	203	569	142	110	64	68	23	19	22	16
24	36	26	226	429	130	103	59	89	19	16	69	16
25	22	26	622	256	119	97	200	49	19	17	33	15
26	89	20	413	186	145	90	607	43	18	16	25	22
27	299	345	191	145	1060	82	266	42	19	14	21	21
28	75	706	127	125	834	78	178	144	28	12	96	18
29	45	132	96	110	---	75	125	61	35	13	42	16
30	34	250	77	101	---	74	99	46	48	18	29	16
31	30	---	478	244	---	72	---	40	---	36	25	---
TOTAL	869.8	2026	4779	13013	13173	6624	3257	1837	914	700	1357	1648
MEAN	28.1	67.5	154	420	470	214	109	59.3	30.5	22.6	43.8	54.9
MAX	299	706	622	3510	2510	772	607	149	93	52	195	416
MIN	6.1	15	35	75	119	72	49	36	18	12	12	15
CFSM	.44	1.06	2.41	6.56	7.34	3.34	1.70	.93	.48	.35	.68	.86
IN.	.51	1.18	2.78	7.56	7.66	3.85	1.89	1.07	.53	.41	.79	.96

CAL YR 1981 TOTAL 29341.2 MEAN 80.4 MAX 1200 MIN 4.8 CFSM 1.26 IN 17.05
WTR YR 1982 TOTAL 50197.8 MEAN 138 MAX 3510 MIN 6.1 CFSM 2.16 IN 29.18

02385800 HOLLY CREEK NEAR CHATSWORTH, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1968 to June 1974, March 1978 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
OCT					
28...	0925	76	14.0	22	4.5
MAR					
04...	1840	180	12.5	15	7.3
APR					
16...	1340	49	17.0	13	1.7
MAY					
25...	1105	51	21.0	23	3.2
JUN					
30...	1010	46	24.0	40	5.0
AUG					
23...	1355	19	23.0	20	1.0
SEP					
29...	1120	16	17.5	19	.82

02387000 CONASAUGA RIVER AT TILTON, GA.

LOCATION.--Lat 34°40'00", long 84°55'42", Whitfield-Murray County line, Hydrologic Unit 03150101, on left bank 250 ft (76 m) downstream from highway bridge, 0.2 mi (0.3 km) downstream from Swamp Creek, 0.5 mi (0.8 km) northeast of Tilton, and 12 mi (19.3 km) upstream from confluence with Coosawattee River.

DRAINAGE AREA.--687 mi^2 (1,780 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1937 to current year.

REVISED RECORDS.--WRD GA-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 622.28 ft (189.671 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to Aug. 24, 1940, nonrecording gage at site 150 ft (46 m) upstream at same datum. Since Oct. 1, 1979, auxiliary water-stage recorder at county road bridge, 3.2 mi (5.1 km) downstream. Water-stage recorder on Oostanaula River at Resaca used as auxiliary gage during 1961-79 water years.

REMARKS.--Records good. Flow affected by withdrawals and return flow by the city of Dalton, Ga.

AVERAGE DISCHARGE.--45 years, 1,216 ft^3/s (34.44 m^3/s), 24.04 in/yr (611 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 29,000 ft^3/s (821 m^3/s) Mar. 30, 1951; maximum gage height, 30.2 ft (9.20 m) Mar. 30, 1951, backwater from Coosawattee River; minimum daily discharge, 50 ft^3/s (1.42 m^3/s) Oct. 29, 1978.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 5,000 ft^3/s (142 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 6	0900	*18700	530	24.53	7.477
Jan. 24	0100	8050	228	17.60	5.364
Feb. 5	1500	10700	303	20.40	6.218
Feb. 11	0500	5190	147	13.51	4.118
Feb. 18	1700	5970	169	14.60	4.450
Mar. 1	0200	6920	196	16.23	4.947
Mar. 8	2400	5300	150	13.60	4.145
Mar. 17	1300	5410	153	13.60	4.145

Minimum daily discharge, 62 ft^3/s (1.76 m^3/s) Oct. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	132	280	3030	4790	2890	6530	645	951	343	494	475	400
2	106	246	4120	4660	3180	3440	639	813	311	357	724	849
3	75	227	2710	3260	6800	2240	634	726	263	289	448	2360
4	62	206	1250	10100	9000	1920	678	645	235	252	313	1300
5	65	281	875	14900	10500	1650	620	592	245	226	249	653
6	90	393	677	18200	9600	1500	600	547	258	199	220	462
7	96	483	625	14100	5410	3400	590	520	237	187	201	373
8	94	353	559	6470	2530	5050	567	894	214	185	187	316
9	94	294	473	2510	2690	4670	639	965	201	229	191	284
10	102	259	409	1500	4770	2290	870	659	197	395	334	260
11	116	228	372	1260	4550	1850	668	541	203	283	1120	244
12	118	213	348	1020	2760	1600	590	490	231	305	1270	265
13	126	201	334	1070	2110	1400	556	450	332	350	662	287
14	127	187	572	1020	1810	1300	521	421	402	274	435	273
15	111	191	1450	983	1540	1500	556	396	334	222	342	249
16	106	186	1150	900	2550	4160	517	375	260	198	297	232
17	100	184	779	777	5360	5340	734	361	409	233	446	210
18	104	173	650	698	5880	3780	1690	345	384	351	679	194
19	124	176	580	737	4580	2100	1610	368	322	393	496	194
20	121	183	507	1120	2500	1750	1080	414	266	430	357	193
21	122	178	436	3110	2000	1430	994	371	237	423	293	183
22	125	189	484	6100	1700	1280	966	370	223	260	255	167
23	128	199	854	7640	1440	1260	773	354	225	272	245	161
24	161	220	1730	7560	1290	1040	655	450	217	296	435	161
25	242	230	2960	4250	1150	1000	1040	710	206	225	531	161
26	466	227	4190	2390	1080	921	3550	541	184	308	334	183
27	1060	898	2980	1750	4440	935	3510	446	164	356	255	196
28	1420	2540	1670	1450	6660	838	2170	458	228	260	364	199
29	698	2040	1230	1280	---	757	1530	600	279	262	516	192
30	441	1190	966	1140	---	678	1170	455	482	299	334	175
31	330	---	1750	1310	---	670	---	385	---	503	267	---
TOTAL	7262	12855	40720	128055	110770	68279	31362	16613	8092	9316	13275	11376
MEAN	234	429	1314	4131	3956	2203	1045	536	270	301	428	379
MAX	1420	2540	4190	18200	10500	6530	3550	965	482	503	1270	2360
MIN	62	173	334	698	1080	670	517	345	164	185	187	161
CFSM	.34	.62	1.91	6.01	5.76	3.21	1.52	.78	.39	.44	.62	.55
IN.	.39	.70	2.20	6.93	6.00	3.70	1.70	.90	.44	.50	.72	.62

CAL YR 1981 TOTAL 278911 MEAN 764 MAX 5700 MIN 62 CFSM 1.11 IN 15.10
WTR YR 1982 TOTAL 457975 MEAN 1255 MAX 18200 MIN 62 CFSM 1.83 IN 24.80

02387000 CONASAUGA RIVER AT TILTON, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1968 to current year.
PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1975 to current year.
pH: October 1975 to current year.
WATER TEMPERATURES: October 1975 to current year.
DISSOLVED OXYGEN: October 1975 to current year.
REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, Dissolved Oxygen, and Specific Conductance by the U.S. Geological Survey.
EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 623 micromhos Sept. 26, 1981; minimum, 34 micromhos Mar. 23, 1980.
pH: Maximum recorded, 8.7 units Feb. 28, Mar. 1, 1977; minimum recorded, 6.3 units July 5, 6, 1976.
WATER TEMPERATURE: Maximum recorded, 32.5°C Aug. 7, 1979; minimum recorded, 0.0°C Dec. 19, 20, 1981.
DISSOLVED OXYGEN: Maximum recorded, 13.6 mg/L Jan. 31, 1977; minimum recorded, 0.6 mg/L July 1, 1977.
EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 414 micromhos Oct. 8; minimum recorded, 44 micromhos Jan. 6.
pH: Maximum recorded, 7.9 units Jan. 20, 21; minimum recorded, 6.5 units Jan. 5, 6.
WATER TEMPERATURE: Maximum recorded, 29.0°C July 5-9, 28; minimum recorded, 0.0°C Dec. 19, 20.
DISSOLVED OXYGEN: Maximum recorded, 13.0 mg/L Dec. 21, 22; minimum recorded, 3.2 mg/L June 11.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	TEMPER-ATURE, AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT 22...	1330	125	350	355	7.3	7.6	16.5	22.5	7.1	74
NOV 19...	1300	175	273	280	7.3	7.6	12.0	19.5	8.2	78
DEC 21...	1330	410	159	153	7.5	7.5	.5	-1.0	13.0	--
JAN 19...	1300	777	147	150	7.5	7.4	1.0	3.0	12.0	--
FEB 22...	1500	1660	111	110	7.5	7.3	11.0	10.0	9.7	--
MAR 10...	1410	2200	99	93	7.3	7.2	10.0	18.0	10.2	--
APR 01...	1100	651	159	161	7.2	7.6	15.0	17.0	8.8	89
MAY 12...	1300	490	162	159	7.2	7.6	21.0	20.0	6.6	75
JUN 08...	1000	219	190	185	7.3	7.4	23.5	22.0	--	--
JUL 13...	1050	360	162	161	7.0	7.5	25.0	22.0	5.4	67
AUG 10...	1420	302	214	216	7.2	7.6	27.5	26.0	3.7	48
SEP 14...	1320	261	204	202	7.2	7.4	24.5	24.0	5.7	--

02387000 CONASAUGA RIVER AT TILTON, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TUR-BID-ITY (JTU)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	ALKA-LINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)
OCT								
22...	10	27	1.0	90	--	--	86	7
NOV								
19...	10	22	1.6	2300	78	1.0	77	7
DEC								
21...	7	10	2.1	1500	64	6.0	58	7
JAN								
19...	15	26	3.0	1300	70	10	60	17
FEB								
22...	13	18	1.4	460	54	10	44	19
MAR								
10...	17	14	1.3	1100	40	1.0	39	19
APR								
01...	3	10	1.4	90	60	.00	65	14
MAY								
12...	14	18	1.2	2300	66	11	55	35
JUN								
08...	14	12	1.3	110	--	--	65	22
JUL								
13...	15	17	1.0	1300	64	11	53	43
AUG								
10...	15	--	1.9	790	74	18	56	15
SEP								
14...	19	20	.9	790	72	11	61	15

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT					
22...	2.8	.100	1.40	3.20	2.0
NOV					
19...	.40	.130	1.00	2.14	11
DEC					
21...	.28	.090	.20	.260	1.0
JAN					
19...	.98	.080	1.10	.700	15
FEB					
22...	.40	.050	.20	.140	<1.0
MAR					
10...	.30	.110	.60	.230	7.0
APR					
01...	.50	.080	.40	.640	3.0
MAY					
12...	.36	.100	.46	.900	5.0
JUN					
08...	1.3	.200	.40	1.14	6.0
JUL					
13...	2.0	.140	.60	.960	3.0
AUG					
10...	2.9	.190	--	2.28	--
SEP					
14...	2.1	.100	.80	1.49	4.0

02387000 CONASAUGA RIVER AT TILTON, GA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	363	296	161	154	---	---	---	---	144	120	85	73
2	334	324	165	162	---	---	---	---	127	102	80	69
3	331	321	221	168	---	---	---	---	100	61	---	---
4	337	316	246	221	152	112	67	48	72	61	---	---
5	353	338	245	232	128	121	48	45	73	56	---	---
6	336	291	275	211	128	122	50	44	87	63	---	---
7	398	294	219	175	144	128	77	50	101	89	---	---
8	414	397	185	173	165	144	107	79	111	103	---	---
9	410	395	184	173	177	159	---	---	122	107	---	---
10	401	371	237	174	191	175	---	---	108	106	---	---
11	369	339	250	234	202	185	---	---	108	105	---	---
12	335	278	260	240	204	197	---	---	111	107	---	---
13	331	273	258	242	200	183	---	---	114	108	---	---
14	363	339	251	238	200	168	---	---	115	111	---	---
15	362	344	244	206	182	154	---	---	118	114	---	---
16	386	364	207	196	166	158	---	---	120	117	---	---
17	393	374	273	192	167	162	---	---	---	---	---	---
18	374	336	297	274	172	167	---	---	---	---	---	---
19	330	268	290	271	174	163	149	147	---	---	---	---
20	278	262	280	260	164	160	158	143	---	---	---	---
21	338	283	273	252	166	159	145	113	---	---	---	---
22	364	339	251	210	195	168	120	79	117	110	---	---
23	364	251	210	195	191	169	81	68	121	119	145	124
24	342	256	271	203	171	148	88	79	---	---	141	112
25	266	180	288	250	---	---	94	89	132	125	149	120
26	179	146	253	236	---	---	114	96	134	127	148	116
27	179	131	232	150	---	---	124	115	129	94	---	---
28	135	115	---	---	---	---	132	127	96	81	---	---
29	128	122	---	---	---	---	140	131	---	---	---	---
30	150	133	---	---	144	135	143	137	---	---	---	---
31	163	154	---	---	149	137	---	---	---	---	---	---
MONTH	414	115	297	150	204	112	158	44	144	56	149	69

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	160	112	123	122	156	144	189	169	---	---	---	---
2	150	98	126	123	188	159	182	164	---	---	---	---
3	147	102	138	127	188	183	163	158	161	156	---	---
4	137	93	147	142	200	183	159	152	163	155	---	---
5	117	87	153	149	205	194	161	153	174	162	---	---
6	120	76	159	154	194	180	168	160	186	173	---	---
7	180	82	160	153	180	173	180	168	192	177	132	124
8	194	131	169	142	215	173	191	182	---	---	179	132
9	196	126	142	131	229	215	193	181	---	---	184	177
10	192	128	148	138	235	223	199	159	219	184	---	---
11	182	137	158	149	234	220	187	139	185	120	---	---
12	160	129	165	158	230	207	158	139	156	129	---	---
13	181	142	171	166	205	176	166	153	147	139	---	---
14	181	142	175	168	174	145	178	159	153	145	207	202
15	177	134	173	163	182	154	195	178	149	145	210	201
16	171	147	164	156	195	182	193	182	169	143	217	205
17	177	149	162	154	228	180	200	182	204	170	229	211
18	155	138	187	164	208	178	201	157	171	105	230	221
19	150	134	195	179	183	178	164	134	160	137	229	204
20	136	131	178	167	178	168	178	137	174	159	211	198
21	156	134	173	167	174	167	---	---	174	165	247	198
22	145	139	169	163	214	164	---	---	170	162	258	241
23	152	145	167	154	222	209	---	---	165	159	259	247
24	152	144	160	153	221	212	---	---	215	160	261	257
25	144	110	158	146	224	212	---	---	184	153	263	250
26	120	107	156	149	224	221	164	160	183	172	261	236
27	113	109	159	151	229	201	177	162	200	183	236	213
28	117	112	165	153	201	188	181	166	215	175	238	209
29	120	112	156	131	218	193	---	---	191	151	251	236
30	121	116	149	131	222	177	---	---	158	146	251	240
31	---	---	144	140	---	---	---	---	200	160	---	---
MONTH	196	76	195	122	235	144	201	134	219	105	263	124
YEAR	414	44										

02387000 CONASAUGA RIVER AT TILTON, GA.--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	7.1	6.9	7.2	7.1	---	---	---	---	7.4	7.2	7.0	6.9
2	7.1	7.0	7.3	7.2	---	---	---	---	7.2	7.1	7.2	6.9
3	7.1	7.0	7.3	7.1	---	---	---	---	7.2	7.0	---	---
4	7.1	7.1	7.1	7.1	7.2	7.2	7.0	6.7	7.0	6.9	---	---
5	7.1	7.1	7.2	7.1	7.3	7.2	6.7	6.5	7.0	6.8	---	---
6	7.2	7.1	7.2	7.1	7.4	7.4	6.7	6.5	7.0	7.0	---	---
7	7.1	7.0	7.3	7.2	7.5	7.4	6.8	6.7	7.1	6.9	---	---
8	7.1	7.0	7.4	7.3	7.5	7.4	7.0	6.8	7.3	7.1	---	---
9	7.2	7.1	7.4	7.4	7.4	7.4	---	---	7.4	7.2	---	---
10	7.2	7.1	7.4	7.3	7.5	7.4	---	---	7.3	7.1	---	---
11	7.2	7.1	7.3	7.2	7.5	7.5	---	---	7.3	7.1	---	---
12	7.3	7.1	7.3	7.2	7.6	7.5	---	---	7.1	7.1	---	---
13	7.4	7.1	7.3	7.2	7.6	7.6	---	---	7.5	7.1	---	---
14	7.2	7.1	7.3	7.3	7.6	7.4	---	---	7.5	7.1	---	---
15	7.2	7.1	7.4	7.3	7.5	7.4	---	---	7.2	7.0	---	---
16	7.2	7.1	7.4	7.4	7.4	7.2	---	---	7.1	7.0	---	---
17	7.2	7.1	7.4	7.2	7.4	7.4	---	---	---	---	---	---
18	7.2	7.1	7.3	7.2	7.5	7.4	---	---	---	---	---	---
19	7.3	7.2	7.3	7.2	7.6	7.5	7.6	7.6	---	---	---	---
20	7.4	7.3	7.4	7.3	7.6	7.6	7.9	7.6	---	---	---	---
21	7.3	7.2	7.4	7.3	7.7	7.6	7.9	7.5	---	---	---	---
22	7.3	7.2	7.6	7.4	7.7	7.6	7.4	7.1	7.6	7.4	---	---
23	7.3	7.2	7.7	7.6	7.8	7.5	7.1	7.0	7.6	7.3	7.4	7.3
24	7.3	7.2	7.7	7.3	7.6	7.3	7.3	7.0	---	---	7.4	7.3
25	7.5	7.3	7.4	7.3	---	---	7.5	7.2	7.4	7.1	7.3	7.3
26	7.4	7.3	7.5	7.4	---	---	7.4	7.2	7.1	7.0	7.3	7.3
27	7.4	7.2	7.6	7.4	---	---	7.4	7.3	7.2	7.1	7.4	7.3
28	7.2	7.1	---	---	---	---	7.5	7.4	7.1	7.0	7.5	7.4
29	7.2	7.1	---	---	---	---	7.6	7.3	---	---	7.5	7.4
30	7.1	7.1	---	---	7.5	7.3	7.5	7.2	---	---	7.4	7.3
31	7.1	7.1	---	---	7.6	7.2	7.6	7.1	---	---	7.5	7.4
MONTH	7.5	6.9	7.7	7.1	7.8	7.2	7.9	6.5	7.6	6.8	7.5	6.9

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	7.5	7.2	7.3	7.2	7.1	7.0	7.1	7.0	---	---	---	---
2	7.4	7.3	7.3	7.2	7.0	6.9	7.1	7.1	---	---	---	---
3	7.4	7.3	7.3	7.3	7.1	7.1	7.1	7.0	7.1	7.1	---	---
4	7.5	7.4	7.3	7.2	7.2	7.2	7.0	7.0	7.1	7.0	---	---
5	7.4	7.4	7.2	7.2	7.2	7.2	7.1	7.0	7.1	7.0	---	---
6	7.4	7.3	7.2	7.2	7.3	7.2	7.1	7.1	7.0	7.0	---	---
7	7.5	7.4	7.4	7.2	7.4	7.4	7.2	7.1	7.0	7.0	7.2	7.1
8	7.5	7.4	7.5	7.1	7.4	7.3	7.2	7.1	---	---	7.2	7.1
9	7.5	7.3	7.4	7.3	7.3	7.3	7.2	7.1	---	---	7.1	7.1
10	7.6	7.5	7.4	7.3	7.3	7.2	7.2	6.9	7.2	6.9	---	---
11	7.7	7.5	7.3	7.2	7.2	7.2	7.1	6.9	7.2	7.0	---	---
12	7.7	7.5	7.2	7.2	7.4	7.1	7.1	7.0	7.2	7.0	---	---
13	7.6	7.4	7.2	7.2	7.3	7.1	7.1	7.0	7.1	7.1	---	---
14	7.4	7.3	7.2	7.1	7.2	7.0	7.0	6.9	7.1	7.0	7.1	7.1
15	7.4	7.3	7.2	7.1	7.1	7.0	7.0	7.0	7.2	7.1	7.2	7.1
16	7.3	7.2	7.2	7.2	7.0	6.9	7.1	7.0	7.3	7.1	7.1	7.1
17	7.5	7.2	7.3	7.2	7.0	6.8	7.0	7.0	7.3	7.1	7.1	7.1
18	7.3	7.2	7.2	7.1	6.9	6.8	7.1	7.0	7.2	7.0	7.1	7.1
19	7.3	7.2	7.2	7.1	6.8	6.8	7.1	7.0	7.1	6.9	7.2	7.1
20	7.2	7.2	7.1	7.1	6.8	6.7	7.0	7.0	7.1	7.0	7.3	7.2
21	7.2	7.1	7.1	7.1	7.1	6.7	---	---	7.1	7.0	7.3	7.2
22	7.2	7.2	7.1	7.0	7.1	7.0	---	---	7.2	7.0	7.2	7.2
23	7.3	7.2	7.3	7.1	7.1	7.0	---	---	7.3	7.1	7.3	7.2
24	7.3	7.2	7.3	7.2	7.1	7.0	---	---	7.2	7.1	7.3	7.2
25	7.3	7.0	7.2	7.1	7.1	7.0	---	---	7.2	7.1	7.3	7.2
26	---	---	7.2	7.1	7.1	7.0	7.1	7.0	7.1	7.0	7.3	7.2
27	---	---	7.2	7.0	7.1	7.0	7.1	7.0	7.1	7.0	7.4	7.3
28	---	---	7.1	6.9	7.1	7.1	7.0	6.9	7.2	7.0	7.4	7.2
29	7.2	7.1	7.2	7.0	7.2	7.0	---	---	7.3	7.1	7.3	7.2
30	7.2	7.2	7.1	7.0	7.1	7.0	---	---	7.1	7.1	7.3	7.2
31	---	---	7.2	7.1	---	---	---	---	7.2	7.0	---	---
MONTH	7.7	7.0	7.5	6.9	7.4	6.7	7.2	6.9	7.3	6.9	7.4	7.1
YEAR	7.9	6.5										

02387000 CONASAUGA RIVER AT TILTON, GA.—Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	22.0	19.5	18.0	15.5	---	---	---	---	---	---	---	---
2	22.5	19.5	16.5	14.5	---	---	---	---	9.0	7.0	---	---
3	20.5	18.0	17.0	15.0	---	---	---	---	9.0	7.0	11.0	10.0
4	21.0	16.5	17.0	14.5	9.5	7.5	6.5	4.5	9.0	5.0	---	---
5	20.5	17.0	16.5	14.5	9.0	7.0	8.5	5.0	6.5	4.0	---	---
6	19.5	18.0	19.0	16.5	7.0	6.0	6.5	4.0	---	---	---	---
7	19.0	17.5	17.0	15.0	6.0	5.0	4.0	3.0	---	---	---	---
8	19.5	17.5	15.0	12.0	7.5	.5	9.5	4.0	---	---	---	---
9	18.0	17.0	13.5	11.5	6.5	1.0	---	---	---	---	---	---
10	17.5	17.0	13.5	12.0	5.5	4.0	---	---	---	---	---	---
11	19.0	17.5	14.0	12.5	4.0	2.5	---	---	---	---	---	---
12	19.0	17.5	14.0	12.0	3.5	2.0	---	---	---	---	---	---
13	19.0	17.0	12.5	11.5	2.5	.5	---	---	---	---	---	---
14	18.5	16.5	12.0	10.5	4.0	2.0	---	---	---	---	---	---
15	19.0	17.5	11.0	9.5	4.0	3.0	---	---	---	---	---	---
16	19.5	17.5	10.5	9.5	4.0	3.5	---	---	---	---	---	---
17	20.5	18.0	12.0	9.5	5.5	3.5	---	---	---	---	---	---
18	19.5	18.0	12.0	9.0	4.5	2.0	---	---	---	---	---	---
19	18.5	15.0	12.0	9.5	2.0	.0	2.0	1.0	---	---	---	---
20	15.0	11.0	12.0	10.5	1.0	.0	4.5	2.0	---	---	---	---
21	16.0	12.0	10.5	9.0	1.5	.5	---	---	---	---	---	---
22	17.5	14.5	9.0	6.5	3.0	1.5	---	---	---	---	---	---
23	16.5	15.0	6.5	5.5	5.0	3.5	---	---	---	---	15.5	14.5
24	15.0	12.5	8.5	6.5	5.0	3.0	---	---	---	---	15.5	14.5
25	13.0	11.5	9.0	7.0	---	---	---	---	---	---	16.0	15.0
26	13.5	11.5	9.0	6.5	---	---	6.0	5.0	9.0	4.0	15.0	13.5
27	15.0	13.5	9.0	7.0	---	---	8.0	6.0	9.5	4.0	13.5	12.0
28	16.5	15.0	---	---	---	---	---	---	5.5	4.0	12.0	10.5
29	16.5	14.5	---	---	---	---	---	---	---	---	11.0	10.5
30	17.5	14.5	---	---	7.0	4.0	---	---	---	---	12.5	11.0
31	17.0	15.5	---	---	6.0	3.0	---	---	---	---	15.0	12.5
MONTH	22.5	11.0	19.0	5.5	9.5	.0	9.5	1.0	9.5	4.0	16.0	10.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	17.0	14.5	17.0	15.5	27.0	25.0	26.5	24.0	---	---	---	---
2	16.5	16.0	18.0	16.0	26.0	24.0	26.5	24.5	---	---	---	---
3	18.0	16.0	19.0	17.0	26.0	24.0	27.5	25.0	26.0	25.5	---	---
4	17.0	15.0	19.5	17.5	24.5	24.0	28.0	26.5	27.5	25.0	---	---
5	15.5	14.5	20.5	18.0	25.5	24.0	29.0	26.5	27.5	26.0	---	---
6	14.5	13.0	21.0	19.0	25.0	23.5	29.0	27.5	28.0	26.0	---	---
7	13.0	11.5	20.5	19.0	25.0	23.0	29.0	27.5	28.0	26.5	23.0	22.5
8	12.0	10.5	19.0	18.0	25.5	23.5	29.0	27.0	---	---	23.5	21.5
9	12.5	10.5	19.0	17.0	27.0	25.0	29.0	27.5	---	---	23.5	22.5
10	12.0	10.5	19.5	17.5	28.0	26.0	28.0	26.0	27.0	26.0	---	---
11	13.0	10.5	21.0	18.0	28.0	26.0	27.0	26.0	26.5	24.5	---	---
12	14.5	11.5	22.0	19.0	26.5	25.5	27.5	25.5	24.5	24.0	---	---
13	15.0	13.5	23.0	20.0	25.5	24.5	27.5	25.0	24.5	23.5	---	---
14	17.5	14.5	23.5	20.5	25.0	23.0	27.0	25.5	25.5	24.0	25.0	24.5
15	19.0	16.5	24.0	21.0	25.5	23.5	28.5	26.0	26.0	24.0	26.5	24.5
16	19.5	18.0	24.0	21.5	25.5	25.0	28.0	27.0	25.0	24.0	27.0	25.5
17	19.0	17.5	24.0	22.0	25.5	24.5	28.0	27.0	25.5	24.5	27.0	25.5
18	17.5	16.5	24.0	22.0	26.5	24.0	27.0	26.0	25.0	23.0	27.0	25.5
19	17.0	16.0	24.5	22.5	26.5	24.0	27.0	25.0	26.0	24.0	26.5	25.0
20	16.0	15.5	23.5	22.5	26.5	25.0	26.0	25.0	26.5	25.0	25.0	23.0
21	16.5	15.5	24.5	22.0	25.5	24.5	---	---	26.0	24.5	23.0	21.0
22	16.0	15.0	24.5	22.5	25.5	24.5	---	---	25.5	24.0	21.5	20.0
23	16.0	14.0	24.0	23.0	26.5	24.0	---	---	25.0	25.0	21.0	18.5
24	16.5	14.0	24.0	22.0	27.0	25.0	---	---	25.5	24.5	20.0	18.5
25	15.5	14.0	23.5	22.0	27.0	25.5	---	---	25.0	24.0	19.5	18.5
26	---	---	23.5	22.5	27.5	26.0	28.0	27.0	26.0	23.5	19.5	18.5
27	---	---	24.5	22.5	26.5	25.5	28.5	26.5	26.0	24.5	19.5	18.5
28	---	---	25.5	23.5	27.0	25.0	29.0	27.0	27.0	25.0	20.0	18.0
29	16.0	15.0	25.5	24.0	26.5	25.5	---	---	25.5	24.0	21.0	19.0
30	17.0	15.0	26.5	24.0	26.0	25.0	---	---	24.5	23.5	22.0	20.0
31	---	---	27.5	25.0	---	---	---	---	25.5	24.0	---	---
MONTH	19.5	10.5	27.5	15.5	28.0	23.0	29.0	24.0	28.0	23.0	27.0	18.0
YEAR	29.0	.0										

02387000 CONASAUGA RIVER AT TILTON, GA.--Continued

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	6.4	4.7	6.9	6.1	---	---	---	---			---	---
2	6.4	4.6	7.6	6.6	---	---	---	---			---	---
3	6.6	4.6	7.5	6.6	---	---	---	---			---	---
4	7.0	5.7	6.6	5.8	11.0	10.0	10.8	9.1			---	---
5	8.4	6.3	6.0	5.8	11.8	11.0	9.8	9.3			---	---
6	8.5	7.5	6.2	5.2	12.2	11.8	10.2	9.8			---	---
7	8.0	6.4	7.5	6.2	12.3	12.1	10.2	9.8			---	---
8	7.6	6.1	8.2	7.6	12.1	11.6	9.8	8.4			---	---
9	7.9	6.2	8.8	8.2	11.6	11.3	---	---			---	---
10	7.8	6.6	8.7	7.9	11.5	11.3	---	---			---	---
11	7.2	6.2	7.9	7.4	11.9	11.6	---	---			---	---
12	8.2	6.2	7.8	7.4	12.3	11.9	---	---			---	---
13	8.8	6.9	7.9	7.5	12.5	12.2	---	---			---	---
14	7.9	6.4	8.3	7.9	12.5	11.5	---	---			---	---
15	7.6	5.9	9.0	8.2	12.0	10.8	---	---			---	---
16	6.7	5.4	9.2	8.8	11.6	11.5	---	---			---	---
17	6.4	4.8	9.0	7.9	11.7	11.3	---	---			---	---
18	5.8	4.4	8.1	7.7	11.5	11.3	---	---			---	---
19	5.9	4.1	8.3	7.7	12.2	11.5	11.7	11.4			---	---
20	7.2	5.0	7.8	7.0	12.7	12.2	11.4	10.7			---	---
21	7.3	5.7	8.2	7.0	13.0	12.7	---	---			---	---
22	7.2	5.5	9.6	8.3	13.0	12.5	---	---			---	---
23	6.3	5.1	10.5	9.7	12.7	11.1	---	---			8.8	8.6
24	5.5	4.7	10.5	8.5	11.5	10.4	---	---			8.7	8.6
25	7.1	4.9	9.2	8.2	---	---	---	---			8.6	7.6
26	7.6	6.8	9.3	8.8	---	---	12.1	11.4			8.5	7.7
27	7.6	6.3	9.5	8.9	---	---	12.0	11.1			10.0	8.6
28	7.2	7.0	---	---	---	---	12.4	10.8			11.3	10.1
29	7.1	6.7	---	---	---	---	---	---			11.6	11.3
30	6.7	6.3	---	---	12.2	10.8	---	---			11.2	10.7
31	6.5	6.2	---	---	12.4	11.4	---	---			10.6	9.2
MONTH	8.8	4.1	10.5	5.2	13.0	10.0	12.4	8.4			11.6	7.6

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	9.1	8.4	---	---	5.0	4.8	5.2	4.4	---	---	---	---
2	8.4	8.3	---	---	4.9	4.7	4.5	4.2	---	---	---	---
3	8.3	8.0	---	---	4.9	4.4	4.4	4.2	---	---	---	---
4	8.7	8.1	---	---	4.6	3.9	4.6	4.2	---	---	---	---
5	8.7	8.5	7.3	7.1	4.3	4.0	4.8	4.4	---	---	---	---
6	9.2	8.4	7.4	7.1	5.0	4.0	5.0	4.5	---	---	---	---
7	9.8	9.2	7.5	7.1	5.0	4.6	5.2	4.6	---	---	6.5	6.3
8	9.9	9.7	7.5	7.0	4.8	4.0	5.6	4.8	---	---	6.3	5.9
9	10.3	9.5	7.8	7.1	4.1	3.5	5.4	4.8	---	---	---	---
10	10.4	10.2	7.8	7.3	3.8	3.3	5.5	3.6	---	---	---	---
11	10.5	10.2	7.7	6.9	3.8	3.2	5.1	4.4	---	---	---	---
12	10.3	9.9	7.0	6.6	4.7	3.3	5.4	4.8	---	---	---	---
13	9.8	8.9	6.7	6.1	4.9	3.9	5.4	4.6	---	---	---	---
14	8.9	8.2	6.3	5.9	5.3	4.4	4.6	4.2	---	---	5.7	5.3
15	8.3	7.5	6.1	5.8	5.2	4.7	4.4	3.8	---	---	5.3	4.4
16	7.5	7.2	6.0	5.7	4.7	4.3	4.6	4.2	---	---	4.5	4.1
17	7.1	6.1	5.8	5.6	4.7	3.5	4.5	4.0	---	---	4.5	4.3
18	7.7	6.6	5.7	5.5	4.5	3.7	4.9	4.2	---	---	4.5	4.2
19	8.0	6.7	5.5	5.2	4.5	4.1	5.1	4.6	---	---	4.7	4.3
20	8.1	7.9	5.4	5.2	4.4	4.2	4.9	4.6	---	---	5.3	4.7
21	8.0	7.5	5.2	5.0	4.6	4.3	---	---	---	---	5.6	5.3
22	7.9	7.5	5.1	4.9	4.6	3.9	---	---	---	---	5.9	5.4
23	7.9	7.8	5.4	5.0	4.0	3.5	---	---	4.7	4.2	6.1	5.6
24	7.9	7.7	5.6	5.4	4.2	3.7	---	---	5.1	3.4	6.2	5.8
25	8.0	7.7	5.6	5.4	4.1	3.5	---	---	5.3	4.9	6.3	5.8
26	---	---	5.4	5.2	4.1	3.4	---	---	4.9	4.5	6.2	5.6
27	---	---	5.4	4.9	4.4	3.5	---	---	4.6	4.4	6.8	6.0
28	---	---	5.3	5.1	4.3	3.7	---	---	5.1	4.2	6.9	6.3
29	---	---	5.4	5.0	4.5	4.2	---	---	5.3	5.0	6.4	5.6
30	---	---	5.4	4.9	5.2	4.3	---	---	5.3	5.0	6.1	5.6
31	---	---	5.2	4.9	---	---	---	---	5.6	5.1	---	---
MONTH	10.5	6.1	7.8	4.9	5.3	3.2	5.6	3.6	5.6	3.4	6.9	4.1
YEAR	13.0	3.2										

02387050 CONASAUGA RIVER NEAR RESACA, GA.

LOCATION.--Lat 34°35'36", long 84°56'02", Gordon County, Hydrologic Unit 03150101, at county highway bridge, 1.1 mi (1.8 km) northeast of Resaca, and 5.1 mi (8.2 km) upstream from confluence with Coosawattee River.

DRAINAGE AREA.--706 mi² (1,830 km²).

PERIOD OF RECORD.--August 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	TEMPER-ATURE, AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT 27...	1245	850	215	213	7.5	7.2	13.0	19.5	7.4	--
NOV 23...	1245	200	207	--	7.4	7.7	7.0	14.0	9.1	75
DEC 29...	1300	1200	110	122	7.2	7.5	7.5	7.0	10.7	90
JAN 27...	1345	1800	--	118	7.1	7.4	4.0	8.0	11.8	90
FEB 24...	1430	1400	119	124	7.1	7.5	11.0	24.5	9.9	91
MAR 31...	1330	740	152	156	7.5	7.5	13.5	24.5	9.2	88
APR 29...	0930	1800	110	--	7.3	7.3	16.0	12.0	7.8	81
MAY 25...	1145	800	--	136	7.3	7.2	22.0	31.5	6.5	76
JUN 29...	1000	230	185	191	7.2	7.4	25.0	24.0	4.0	50
JUL 28...	1230	270	166	165	7.3	7.4	28.0	32.5	4.6	58
AUG 25...	0900	700	170	162	7.2	7.5	24.5	25.0	5.3	65
SEP 29...	1000	155	225	225	7.4	7.5	19.0	22.0	6.1	67

DATE	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	ALKA-LINITY LAB (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 27...	35	2.0	2300	88	8.0	80	1.2	.090	.840	7.0
NOV 23...	9	1.5	90	76	.00	82	.32	.140	1.01	5.0
DEC 29...	16	2.4	--	50	10	40	.10	.120	.280	4.0
JAN 27...	22	.8	130	52	14	38	.45	.020	.210	10
FEB 24...	15	1.0	2800	56	9.0	47	.34	.070	.340	<1.0
MAR 31...	10	1.5	330	60	2.0	58	.78	.080	.620	2.0
APR 29...	20	2.0	790	40	.00	41	.16	.100	.300	--
MAY 25...	12	1.7	330	60	11	49	1.3	.070	.860	3.0
JUN 29...	13	1.1	330	76	.00	77	.70	.110	.700	4.5
JUL 28...	21	1.0	2300	66	6.0	60	.61	.070	1.10	--
AUG 25...	35	1.9	1100	66	1.0	65	.32	.140	.740	2.5
SEP 29...	9	1.5	790	78	9.0	69	2.0	.090	1.70	11

02387500 OOSTANAULA RIVER AT RESACA, GA.

LOCATION.--Lat 34°34'42", long 84°56'29", Gordon County, Hydrologic Unit 03150103, near left bank on downstream side of pier of bridge on U.S. Highway 41 at Resaca, 200 ft (61 m) downstream from Nashville, Chattanooga, & St. Louis Railway bridge, 0.8 mi (1.3 km) upstream from Camp Creek, and 3.5 mi (5.6 km) downstream from confluence of Conasauga and Coosawattee Rivers.

DRAINAGE AREA.--1,600 mi^2 (4,140 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1892 to current year. Monthly discharge only for some periods, published in WSP 1304. Gage-height records collected at same site since 1892 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 697: 1896-1928. WSP 1504: 1897-1903, 1905-07, 1909, 1912-13, 1914-15(M), 1916-18, 1919(M), 1920-22, 1923(M), 1924, 1927, 1929-30, 1932, 1933(M), 1936(M), 1938(M), 1946-47(M). WRD GA-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 604.14 ft (184.142 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Since June 1, 1979, auxiliary water-stage recorder at Calhoun water-works intake 6.5 mi (10.5 km) downstream. Oct. 28, 1948, to May 31, 1979, nonrecording auxiliary gage located at State Highway 136 connector 7.1 mi (11.4 km) downstream.

REMARKS.--Records good. Flow regulated by Carters Lake and re-regulation dam. (See "Lakes and Reservoirs in Mobile River Basin," stations 02381400 and 02382400).

AVERAGE DISCHARGE.--90 years, 2,815 ft^3/s (79.72 m^3/s), 23.89 in/yr (607 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 54,800 ft^3/s (1,550 m^3/s) Mar. 31, 1951; maximum gage height, 34.6 ft (10.55 m) Mar. 31, 1951; minimum discharge observed, 180 ft^3/s (5.10 m^3/s) Sept. 7, 8, 1925, gage height, 0.5 ft (0.15 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1834, 36.6 ft (11.16 m) Apr. 1, 1886, from information by Georgia Department of Archives; discharge, 68,600 ft^3/s (1,940 m^3/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 25,300 ft^3/s (716 m^3/s) Jan. 6, gage height, 27.65 ft (8.428 m); minimum daily discharge, 482 ft^3/s (13.7 m^3/s) Oct. 19, 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	802	860	4050	8230	4460	11000	2380	3280	1740	2140	1750	1340
2	1650	760	6040	7590	6590	9870	1690	2600	1600	1780	1750	1360
3	769	655	5240	9090	14600	7380	1770	2420	1350	1440	1860	3380
4	695	635	3050	17000	18800	6560	1800	2360	1270	1060	1700	2700
5	656	680	1940	23800	20300	6070	1800	2280	1220	906	1650	1650
6	691	830	1580	24600	19300	5080	2780	2310	1120	894	1380	1270
7	707	840	1660	22300	15100	6360	3070	2170	1110	1010	1190	1140
8	696	920	2250	18100	8960	8820	2950	2490	1180	966	1000	1090
9	747	770	1130	12300	8560	8970	2760	3550	1270	1040	1020	1250
10	747	700	986	7250	11200	6610	2850	2900	1250	975	1140	1260
11	769	670	938	6010	11800	5370	1860	2690	1200	978	2460	952
12	724	640	974	6330	9920	4650	2130	2400	1250	1840	3160	874
13	771	630	918	6220	7230	3900	2700	2160	1420	2190	3210	873
14	803	650	1130	4050	4600	3420	2280	1670	1440	1940	2420	931
15	769	660	2170	2530	4000	3310	3930	1490	1450	1600	1480	880
16	770	630	2370	1980	5410	6380	2870	1410	1400	1720	1230	1590
17	617	600	1900	1870	9470	8360	2650	1290	1520	1570	1430	2740
18	510	590	1760	1840	11100	8240	4800	1300	1630	1490	2110	2020
19	482	630	2170	2750	10200	5830	4710	1770	1460	1550	1770	1160
20	482	670	1230	3180	6850	4260	4230	1540	1090	1670	1480	727
21	646	680	1130	7080	4220	3450	4340	1610	909	1750	1250	712
22	543	690	1180	9650	3680	3250	3800	1650	824	1520	985	671
23	566	670	1560	10400	3400	3820	2970	1590	862	1660	882	647
24	592	671	2640	11500	4490	3470	2650	1690	1100	1620	1010	660
25	666	746	4290	9800	4570	3250	3170	2700	1100	1320	1470	726
26	909	755	6510	6630	4500	3180	10100	2790	933	1180	1300	682
27	1680	1120	5900	5960	9740	2720	11100	2510	853	1230	1280	706
28	2050	3980	3610	5750	12700	2460	7120	2100	928	1130	1350	739
29	1550	2830	2740	5230	---	2330	4980	1990	1220	1490	1410	709
30	1080	2100	1860	2630	---	3040	4340	1710	1800	1430	1080	695
31	900	---	3140	2370	---	3020	---	1600	---	1650	1200	---
TOTAL	26039	28262	78046	264020	255750	164430	110580	66020	37499	44739	48407	36134
MEAN	840	942	2518	8517	9134	5304	3686	2130	1250	1443	1562	1204
MAX	2050	3980	6510	24600	20300	11000	11100	3550	1800	2190	3210	3380
MIN	482	590	918	1840	3400	2330	1690	1290	824	894	882	647

CAL YR 1981 TOTAL 638866 MEAN 1750 MAX 11000 MIN 482 MEAN† 1746 CFSM† 1.09 IN† 14.81
WTR YR 1982 TOTAL 1159926 MEAN 3178 MAX 24600 MIN 482 MEAN† 3178 CFSM† 1.99 IN† 26.96

† ADJUSTED FOR CHANGE IN CONTENTS IN CARTERS LAKE AND CARTERS RE-REGULATION DAM.

02387500 OOSTANAULA RIVER AT RESACA, GA.—Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.42	2.50	7.74	12.97	8.30	16.04	5.33	6.69	4.25	4.94	4.27	3.53
2	4.05	2.35	10.31	12.21	10.98	14.81	4.16	5.68	4.00	4.33	4.26	3.57
3	2.35	2.08	9.29	13.69	19.34	11.96	4.30	5.40	3.54	3.70	4.45	6.84
4	2.18	2.00	6.36	23.52	23.61	10.96	4.36	5.29	3.39	2.98	4.18	5.81
5	2.09	2.10	4.59	26.98	24.98	10.34	4.35	5.16	3.30	2.65	4.09	4.08
6	2.17	2.40	3.96	27.52	24.52	9.09	5.96	5.23	3.09	2.63	3.59	3.40
7	2.21	2.50	4.10	26.66	21.79	10.68	6.40	4.98	3.08	2.87	3.23	3.13
8	2.18	2.55	5.08	24.37	15.13	13.66	6.23	5.48	3.22	2.78	2.86	3.04
9	2.30	2.30	3.11	19.74	13.35	13.84	5.93	7.09	3.40	2.95	2.90	3.36
10	2.30	2.20	2.82	12.56	16.19	11.01	6.07	6.14	3.36	2.80	3.13	3.36
11	2.35	2.05	2.72	10.27	16.82	9.47	4.45	5.82	3.25	2.80	5.45	2.75
12	2.24	2.00	2.80	10.68	14.87	8.56	4.92	5.36	3.36	4.42	6.52	2.58
13	2.35	2.00	2.68	10.54	11.76	7.57	5.84	4.97	3.68	5.01	6.60	2.58
14	2.42	2.05	3.10	7.77	8.50	6.90	5.16	4.13	3.72	4.59	5.39	2.71
15	2.35	2.05	4.98	5.55	7.69	6.74	7.60	3.80	3.73	4.00	3.78	2.59
16	2.35	2.00	5.32	4.66	9.49	10.72	6.08	3.65	3.64	4.21	3.31	3.94
17	1.99	1.95	4.53	4.47	14.38	13.12	5.74	3.44	3.86	3.95	3.68	5.90
18	1.72	1.94	4.28	4.42	16.09	12.99	8.75	3.45	4.05	3.81	4.88	4.72
19	1.65	2.00	4.96	5.92	15.20	10.04	8.63	4.30	3.74	3.92	4.29	3.17
20	1.65	2.05	3.32	6.56	11.29	8.04	8.01	3.89	3.04	4.13	3.77	2.25
21	2.06	2.05	3.13	11.52	8.00	6.94	8.16	4.01	2.66	4.28	3.35	2.22
22	1.81	2.10	3.21	14.61	7.26	6.66	7.43	4.10	2.47	3.86	2.82	2.12
23	1.87	2.09	3.93	15.37	6.88	7.47	6.24	3.98	2.55	4.12	2.60	2.06
24	1.93	2.12	5.75	16.51	8.36	6.98	5.76	4.16	3.06	4.04	2.87	2.09
25	2.11	2.30	8.05	14.73	8.46	6.66	6.41	5.84	3.05	3.48	3.76	2.25
26	2.65	2.31	10.89	11.04	8.37	6.56	14.97	5.98	2.71	3.22	3.44	2.15
27	4.14	3.02	10.14	10.20	14.51	5.87	16.09	5.54	2.53	3.31	3.41	2.20
28	4.80	7.67	7.15	9.94	17.65	5.46	11.63	4.86	2.69	3.12	3.55	2.28
29	3.85	6.04	5.91	9.29	---	5.24	8.98	4.69	3.29	3.80	3.65	2.21
30	3.00	4.87	4.46	5.70	---	6.36	8.15	4.20	4.35	3.69	3.01	2.17
31	2.60	---	6.27	5.30	---	6.33	---	4.01	---	4.08	3.26	---
MEAN	2.46	2.59	5.32	12.75	13.71	9.26	7.07	4.88	3.34	3.69	3.88	3.17
MAX	4.80	7.67	10.89	27.52	24.98	16.04	16.09	7.09	4.35	5.01	6.60	6.84
MIN	1.65	1.94	2.68	4.42	6.88	5.24	4.16	3.44	2.47	2.63	2.60	2.06

WTR YR 1982 MEAN 5.97 MAX 27.52 MIN 1.65

02387500 OOSTANAULA RIVER AT RESACA, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1969 to June 1974, April 1981 to current year.
PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: July 1967 to current year.
INSTRUMENTATION.--Water-temperature recorder since July 1967.
REMARKS.--No daily water-temperature record Oct. 29 to Dec. 29, Feb. 4-7, June 16-28, July 3 to Aug. 18.
EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum recorded, 28.5°C Aug. 21, 1980; minimum recorded, 1.0°C Jan. 9-14, 1970, Jan. 16, 17, 21-24, Feb. 1, 1977, Jan. 12, 13, 1981.
EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum recorded, 25.5°C Aug. 24-25, 29; minimum, 1.5°C Jan. 13-14.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT					
28...	1530	2180	141	830	--
28...	1535	2180	142	836	--
JAN					
04...	1500	19900	237	12700	--
04...	1505	19900	239	12800	--
05...	1410	23900	103	6650	--
05...	1415	23900	99	6390	--
09...	1045	15300	31	1280	--
09...	1050	15300	33	1360	--
11...	1015	6150	67	1110	--
11...	1020	6150	64	1060	--
27...	1600	5990	37	598	--
27...	1605	5990	37	598	--
FEB					
03...	0815	14000	187	7070	--
03...	0820	14000	189	7140	78
04...	1200	19400	191	10000	--
04...	1205	19400	192	10100	--
05...	1130	21100	80	4560	89
08...	1040	10300	57	1590	74
08...	1045	10300	46	1280	--
08...	1915	8290	54	1210	72
08...	1920	8290	50	1120	--
MAR					
04...	1430	6520	45	792	--
04...	1435	6520	44	775	--
APR					
15...	1545	4270	86	991	--
15...	1550	4270	87	1000	--
26...	0830	9750	165	4340	--
26...	0835	9750	162	4260	--
26...	1320	10700	147	4250	73
27...	1200	11200	71	2150	74
27...	1205	11200	72	2180	--
28...	1645	6080	63	1030	--
28...	1650	6080	63	1030	--
29...	1050	4910	51	676	--
29...	1055	4910	50	663	--
MAY					
04...	1430	2370	33	211	--
04...	1435	2370	32	205	--
JUN					
29...	0845	1210	33	108	--
29...	0850	1210	33	108	--
AUG					
19...	0830	1820	58	285	--
19...	0835	1820	55	270	--
SEP					
30...	0910	705	13	25	--
30...	0915	705	13	25	--

02387500 OOSTANAULA RIVER AT RESACA, GA.—Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM
FEB								
05...	1130	21100	89	91	92	97	98	100

DATE	TIME	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM
JAN										
05...	1411	<1	1	4	50	92	99	100	--	--
05...	1412	<1	<1	1	2	22	76	94	99	100
FEB										
04...	1201	<1	1	14	83	98	100	--	--	--
04...	1202	<1	<1	1	2	8	47	94	100	--
04...	1203	<1	1	13	28	70	94	100	--	--
APR										
26...	1120	<1	<1	<1	20	75	98	100	--	--
26...	1121	<1	<1	1	14	56	90	98	99	100

02387500 OOSTANAULA RIVER AT RESACA, GA.--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	22.0	20.5			---	---	7.0	6.5	7.0	7.0	7.5	6.0
2	22.0	20.5			---	---	7.5	7.0	7.0	6.0	8.5	7.5
3	20.5	19.0			---	---	9.5	7.5	6.0	5.5	9.0	8.5
4	19.5	18.0			---	---	9.5	9.0	---	---	10.0	9.0
5	20.0	18.0			---	---	9.0	9.0	---	---	10.5	10.0
6	20.5	19.5			---	---	9.0	9.0	---	---	11.0	10.0
7	20.5	19.5			---	---	9.0	8.0	---	---	11.0	9.0
8	19.5	18.0			---	---	8.0	6.5	6.0	5.5	9.0	8.0
9	19.0	18.0			---	---	6.0	2.5	6.5	6.0	8.5	7.5
10	18.0	18.0			---	---	4.5	3.0	7.0	6.5	9.5	8.5
11	19.0	18.0			---	---	3.0	3.0	7.0	6.5	10.0	9.5
12	19.5	19.0			---	---	3.5	2.0	7.0	6.5	11.0	10.0
13	19.5	18.5			---	---	2.0	1.5	7.0	6.5	12.0	11.0
14	19.0	19.0			---	---	3.5	1.5	7.0	6.5	12.0	12.0
15	19.0	18.5			---	---	5.0	3.5	8.0	7.0	12.0	12.0
16	19.0	18.0			---	---	6.5	5.0	9.5	8.0	12.0	12.0
17	20.0	18.5			---	---	8.5	6.5	10.5	10.0	12.0	12.0
18	20.0	19.0			---	---	9.0	8.5	10.5	10.5	13.5	12.0
19	19.0	16.5			---	---	9.0	8.0	10.5	10.5	15.0	13.5
20	16.5	14.5			---	---	8.0	7.0	10.0	9.5	15.5	14.5
21	16.0	14.0			---	---	7.0	6.0	10.0	10.0	15.5	15.5
22	16.5	15.5			---	---	6.0	5.5	10.0	9.5	15.5	14.0
23	16.5	16.0			---	---	5.5	5.0	9.5	9.0	14.0	12.5
24	15.5	14.0			---	---	5.0	4.5	9.5	8.5	13.0	12.5
25	14.0	13.5			---	---	4.5	4.5	9.5	9.5	13.5	13.0
26	14.0	13.5			---	---	7.0	5.0	9.5	8.0	13.5	12.5
27	15.0	14.0			---	---	8.5	7.0	7.5	6.0	12.5	11.5
28	14.5	14.0			---	---	9.0	8.0	6.0	6.0	11.5	10.5
29	---	---			---	---	8.0	7.0	---	---	11.0	10.5
30	---	---			7.0	6.5	7.5	7.0	---	---	11.5	11.0
31	---	---			6.5	6.0	7.5	7.0	---	---	13.0	11.5
MONTH	22.0	13.5			7.0	6.0	9.5	1.5	10.5	5.5	15.5	6.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	14.5	13.0	15.5	15.0	22.5	21.5	22.5	22.0	---	---	25.0	24.0
2	14.5	14.5	16.5	15.5	21.5	20.5	22.5	22.0	---	---	25.0	24.0
3	15.5	14.5	17.0	16.5	20.5	20.5	---	---	---	---	25.0	23.5
4	15.0	14.5	17.0	17.0	20.5	20.0	---	---	---	---	23.5	23.0
5	15.0	13.5	17.5	17.0	21.5	20.0	---	---	---	---	23.5	22.5
6	13.5	12.0	17.5	17.5	22.0	20.5	---	---	---	---	24.0	22.5
7	12.0	11.0	17.5	17.0	22.0	20.5	---	---	---	---	24.0	22.5
8	11.0	11.0	17.0	17.0	22.5	20.5	---	---	---	---	24.0	22.0
9	11.5	10.5	17.5	16.0	21.5	20.5	---	---	---	---	23.5	22.5
10	12.0	11.0	18.5	17.0	22.0	21.0	---	---	---	---	23.5	23.0
11	13.0	11.5	18.5	16.5	22.5	21.5	---	---	---	---	23.5	23.0
12	13.0	12.0	18.0	17.0	22.0	21.0	---	---	---	---	23.5	22.5
13	13.0	13.0	18.5	17.5	22.0	21.0	---	---	---	---	23.5	23.0
14	14.5	13.0	19.5	18.5	23.0	21.5	---	---	---	---	24.5	23.0
15	16.5	14.5	20.5	19.0	23.0	22.0	---	---	---	---	25.5	23.5
16	16.5	16.5	20.5	19.0	---	---	---	---	---	---	25.0	24.0
17	16.5	16.5	21.0	19.5	---	---	---	---	---	---	24.0	23.5
18	16.5	16.0	21.0	20.0	---	---	---	---	---	---	24.0	24.0
19	16.0	15.5	20.0	18.5	---	---	---	---	24.5	23.5	24.5	24.0
20	15.5	14.5	20.5	19.5	---	---	---	---	25.0	24.0	24.0	23.0
21	15.0	14.5	20.0	19.0	---	---	---	---	25.0	24.5	23.0	21.5
22	15.0	14.0	20.0	19.0	---	---	---	---	25.0	23.5	21.5	20.0
23	14.0	13.5	20.0	19.5	---	---	---	---	25.0	23.0	20.0	19.0
24	14.5	13.5	20.5	19.5	---	---	---	---	25.5	24.0	20.0	18.0
25	14.5	14.0	20.5	19.0	---	---	---	---	25.5	24.5	20.0	19.0
26	14.5	14.0	19.5	18.5	---	---	---	---	25.0	23.5	20.5	19.0
27	15.0	14.5	19.5	19.0	---	---	---	---	24.5	24.0	20.5	19.0
28	15.0	15.0	20.5	19.5	---	---	---	---	25.0	24.0	20.5	19.0
29	15.0	15.0	21.5	20.5	23.5	22.5	---	---	25.5	24.5	21.0	19.0
30	15.5	15.0	22.0	21.5	22.5	21.5	---	---	24.5	23.5	21.5	20.0
31	---	---	22.5	22.0	---	---	---	---	25.0	24.0	---	---
MONTH	16.5	10.5	22.5	15.0	23.5	20.0	22.5	22.0	25.5	23.0	25.5	18.0
YEAR	25.5	1.5										

02387502 OOSTANAULA RIVER BELOW RESACA, GA.

LOCATION.--Lat 34°34'17", long 84°56'49", Gordon County, Hydrologic Unit 03150103, at bridge on Interstate Highway 75, 0.4 mi (0.6 km) west of Resaca, and 0.4 mi (0.6 km) upstream from Camp Creek.

DRAINAGE AREA.--1,600 mi^2 (4,140 km^2), revised.

PERIOD OF RECORD.--August 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey. Flow regulated by Carters Lake and Carters re-regulation reservoir. (See "Lakes and Reservoirs in Mobile River Basin", stations 02381400 and 02382400.) Discharge obtained from gaging station 02387500, Oostanaula River at Resaca, Ga.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	TEMPER-ATURE, AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT 27...	1315	1670	132	134	7.5	7.1	15.5	18.0	7.6	--
NOV 23...	1330	666	--	140	7.4	7.7	8.0	12.5	9.6	82
DEC 29...	1345	2740	--	96	7.2	7.5	7.0	7.0	11.2	93
JAN 27...	1310	6000	--	73	7.0	7.1	4.5	5.5	11.9	92
FEB 24...	1515	4620	69	73	--	7.4	9.5	24.5	10.8	97
MAR 31...	1415	3030	75	80	7.3	7.3	12.5	23.0	10.2	96
APR 29...	0950	4990	76	--	7.2	7.4	15.0	17.0	8.6	87
MAY 25...	1215	2870	83	80	7.3	7.2	19.5	31.5	8.3	92
JUN 29...	1100	1220	97	101	7.2	7.4	23.0	24.0	6.7	80
JUL 28...	1300	1170	--	95	7.4	7.4	26.5	36.5	6.8	85
AUG 25...	0800	1610	140	134	7.2	7.4	23.0	24.0	5.9	71
SEP 29...	1030	718	115	114	7.4	7.5	19.0	22.0	7.3	80

DATE	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	ALKA-LINITY LAB (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 27...	22	1.5	4300	54	3.0	51	.28	.070	.280	9.0
NOV 23...	6	<.1	70	128	81	47	.16	.040	.500	6.1
DEC 29...	16	1.5	--	36	4.0	32	.40	.120	.120	10
JAN 27...	21	.3	490	32	11	21	.31	.020	.080	9.0
FEB 24...	16	.9	130	40	13	27	.28	.090	.120	<1.0
MAR 31...	9	1.2	40	30	1.0	29	.37	.040	.130	<1.0
APR 29...	16	1.1	790	30	2.0	28	.20	.060	.120	--
MAY 25...	20	1.2	1300	40	8.0	32	.38	.040	.220	2.0
JUN 29...	12	.9	1300	36	.00	39	.23	.050	.240	1.0
JUL 28...	14	1.0	840	46	10	36	.28	<.020	.320	--
AUG 25...	32	1.6	2200	50	2.0	48	.66	.060	.690	2.5
SEP 29...	7	1.8	170	46	3.0	43	.37	.020	.240	2.0

02388000 WEST ARMUCHEE CREEK NEAR SUBLIGNA, GA.

LOCATION.--Lat 34°34'04", long 85°09'16", Chattooga County, Hydrologic Unit 03150103, on left bank 500 ft (152 m) downstream from bridge on county road, 1 mi (1.6 km) upstream from Ruff Creek, and 2 mi (3.2 km) east of Subligna.

DRAINAGE AREA.--36.4 mi^2 (94.3 km^2).

PERIOD OF RECORD.--November 1977 to April 1982 (discontinued). Water discharge records for the period April 1939 to June 1940 and May 1960 to September 1981 are in reports published by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
OCT					
26...	1740	12	13.5	7	.23
JAN					
26...	1545	108	7.0	11	3.2
MAR					
02...	1750	147	12.0	11	4.4
APR					
13...	1650	27	16.0	6	.44

02388300 HEATH CREEK NEAR ROME, GA.

LOCATION.—Lat 34°21'57", long 85°16'17", Floyd County, Hydrologic Unit 03150103, on upstream left wingwall of bridge on county road, 4 mi (6.4 km) upstream from Little Armuchee Creek, and 9.5 mi (15.3 km) northwest of Rome.

DRAINAGE AREA.—14.7 mi^2 (38.1 km^2).

PERIOD OF RECORD.—May 1968 to current year.

REVISED RECORDS.—WRD GA-80-1: Drainage area.

GAGE.—Water-stage recorder. Altitude of gage is 650 ft (198 m), from topographic map.

REMARKS.—Records fair except those of no gage-height record, Feb. 4-17, Apr. 26 to May 12, and Aug. 18 to Sept. 14, which are poor.

AVERAGE DISCHARGE.—14 years, 27.2 ft^3/s (0.770 m^3/s), 25.13 in/yr (638 mm/yr).

EXTREMES FOR PERIOD OF RECORD.—Maximum gage height, 10.03 ft (3.057 m) Mar. 4, 1979 (discharge not determined); minimum daily discharge, 1.2 ft^3/s (0.034 m^3/s) Aug. 31 to Sept. 6, 1977, Oct. 5-7, 11, 13-21, 1978.

EXTREMES FOR CURRENT YEAR.—Peak discharges above base of 400 ft^3/s (11.3 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 3	1700	*847	24.0	7.49	2.283
Feb. 3	0645	582	16.5	6.31	1.923
Feb. 17	1330	416	11.8	5.31	1.618
Feb. 27	1115	418	11.8	5.32	1.622
Apr. 25	2245	466	13.2	5.62	1.713

Minimum daily discharge, 1.8 ft^3/s (0.051 m^3/s) Sept. 21.

REVISIONS.—Incorrect daily discharge figures for January 4-26, 1981, were published in the report for water year 1981. The corrected daily figures for January 4-26, 1981, monthly figures for January 1981, and yearly figures for the 1981 water year are contained within the 1981 water year table published below.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	5.1	11	4.2	5.7	10	100	3.8	28	2.6	3.0	8.9
2	6.0	5.2	10	3.8	108	9.4	50	3.6	19	4.8	3.0	7.1
3	4.2	4.3	9.8	3.6	45	8.1	30	3.3	13	3.7	2.9	6.3
4	3.3	4.6	9.1	3.8	29	10	20	3.3	21	3.0	2.8	5.9
5	2.8	4.4	8.6	3.4	22	23	120	3.3	14	3.0	2.8	5.7
6	2.5	4.3	8.0	3.4	18	16	50	3.3	11	3.2	2.6	5.5
7	2.4	4.3	7.5	4.2	16	14	25	3.2	10	2.8	2.6	8.5
8	2.3	4.5	7.7	3.9	15	12	15	3.2	11	2.7	2.8	5.2
9	2.2	4.6	8.9	3.6	12	10	12	3.2	8.5	2.6	2.7	4.2
10	2.2	5.0	12	3.5	162	9.4	9.0	3.1	7.5	2.5	2.6	3.6
11	2.2	4.4	10	3.3	283	8.8	7.3	3.6	5.9	2.5	2.6	3.2
12	2.1	4.0	9.3	3.2	82	8.1	6.2	3.3	5.2	2.4	2.7	3.2
13	2.1	4.0	10	4.1	48	14	5.4	3.8	4.5	2.5	2.6	3.0
14	2.1	4.5	8.6	3.5	33	14	4.7	7.5	4.3	2.5	2.5	2.9
15	2.0	8.2	8.3	3.3	25	7.3	4.4	3.6	4.5	2.5	2.4	2.9
16	2.0	7.8	8.0	3.1	20	7.8	4.2	3.8	3.6	2.8	2.4	3.1
17	2.0	6.3	8.4	2.9	52	7.2	4.1	3.6	3.4	24	2.5	2.8
18	3.0	6.6	7.2	2.9	120	9.5	4.0	4.3	3.1	14	6.0	2.7
19	4.7	5.7	6.6	2.9	109	8.3	4.8	7.3	3.0	3.8	3.8	2.6
20	2.8	5.3	6.4	3.2	71	6.7	9.0	6.6	2.9	3.5	3.4	2.6
21	2.4	6.1	5.4	8.0	45	5.8	6.0	6.8	2.8	3.1	24	2.7
22	2.3	6.9	4.7	5.8	34	8.5	4.1	5.9	2.9	2.9	4.5	2.6
23	2.3	9.9	4.8	5.0	29	19	11	4.3	2.7	2.9	3.5	2.6
24	2.2	16	4.9	4.5	20	17	8.0	3.1	2.6	2.9	3.3	2.4
25	3.2	13	5.2	4.1	16	16	5.5	2.9	2.6	5.0	3.1	2.5
26	2.9	11	4.6	3.9	14	14	4.4	8.5	11	3.1	2.9	2.6
27	2.8	17	4.4	3.9	12	11	3.7	14	2.9	2.9	2.8	2.3
28	16	16	4.3	3.9	10	9.5	4.0	7.1	2.8	2.9	2.7	2.5
29	7.3	14	4.2	3.4	---	8.6	5.5	3.9	2.7	4.2	2.7	2.4
30	6.1	12	4.2	3.4	---	282	4.3	3.6	2.6	4.5	65	2.3
31	5.2	---	4.3	3.3	---	200	---	12	---	3.0	13	---
TOTAL	115.6	225.0	226.4	119.0	1455.7	805.0	541.6	152.8	219.0	128.8	186.2	114.8
MEAN	3.73	7.50	7.30	3.84	52.0	26.0	18.1	4.93	7.30	4.15	6.01	3.83
MAX	16	17	12	8.0	283	282	120	14	28	24	65	8.9
MIN	2.0	4.0	4.2	2.9	5.7	5.8	3.7	2.9	2.6	2.4	2.4	2.3
CFSM	.25	.51	.50	.26	3.54	1.77	1.23	.34	.50	.28	.41	.26
IN.	.29	.57	.57	.30	3.68	2.04	1.37	.39	.55	.33	.47	.29

WTR YR 1981 TOTAL 4289.9 MEAN 11.8 MAX 283 MIN 2.0 CFSM .80 IN 10.86

02388300 HEATH CREEK NEAR ROME, GA.—Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	2.8	88	86	52	107	14	30	6.1	6.7	2.8	2.5
2	2.3	2.8	33	44	170	77	13	23	5.0	4.6	2.5	2.8
3	2.3	2.8	15	471	541	57	15	20	4.8	4.1	2.4	2.5
4	2.5	3.4	9.7	685	300	46	12	17	6.3	3.6	2.3	2.3
5	2.5	2.8	7.4	537	140	38	33	15	5.8	3.3	2.3	2.2
6	2.4	2.9	6.1	267	80	41	28	14	4.9	3.0	2.3	2.1
7	2.4	2.7	6.0	47	60	114	22	16	4.6	2.9	2.2	2.1
8	2.3	2.6	5.2	36	40	72	50	25	4.4	2.8	2.3	2.1
9	2.3	2.6	4.2	26	80	55	67	14	4.2	2.8	2.6	2.0
10	2.4	2.5	4.2	19	60	46	47	11	4.1	3.4	24	2.0
11	2.2	2.5	4.0	14	50	38	37	10	3.8	3.0	12	2.0
12	2.1	2.7	4.0	13	40	33	30	9.0	3.8	3.0	5.0	2.1
13	2.1	2.6	3.7	12	35	29	25	8.5	4.7	2.8	3.2	2.2
14	2.1	2.6	18	11	32	25	171	7.8	4.1	2.6	2.8	2.4
15	2.0	2.6	14	9.2	30	71	102	7.6	3.8	2.6	2.5	2.2
16	2.1	2.8	10	8.9	130	76	72	7.2	3.7	2.7	2.4	2.0
17	2.1	2.7	8.9	8.0	330	118	179	6.7	4.1	2.7	6.0	2.1
18	2.3	2.6	7.9	7.4	134	113	131	6.6	3.9	2.6	4.8	1.9
19	2.2	2.7	6.8	9.8	85	75	103	6.3	3.6	2.6	3.5	1.9
20	2.1	3.1	5.5	13	59	55	95	6.5	3.4	2.6	2.9	1.9
21	2.2	3.0	6.1	143	47	46	94	6.7	3.3	2.6	2.6	1.8
22	2.1	2.9	13	78	36	41	62	6.1	3.8	2.6	2.5	1.9
23	3.1	2.8	31	139	29	33	45	8.1	3.8	2.7	2.4	1.9
24	2.4	3.1	27	83	25	29	34	7.7	3.5	2.5	2.4	1.9
25	4.3	3.2	92	48	21	25	210	6.6	3.3	2.5	2.3	3.1
26	9.7	3.0	55	40	27	22	300	6.3	3.9	2.5	2.3	2.5
27	10	3.4	36	36	304	18	150	5.9	13	2.5	2.3	2.6
28	3.9	4.9	25	29	171	17	90	5.6	11	2.3	2.7	2.2
29	3.3	3.5	20	28	---	16	55	5.3	7.6	2.4	2.4	2.4
30	3.0	17	16	29	---	15	40	5.2	6.6	2.8	2.2	2.6
31	2.8	---	124	64	---	15	---	5.7	---	2.7	2.2	---
TOTAL	91.8	101.6	706.7	3041.3	3108	1563	2326	330.4	148.9	92.5	117.1	66.2
MEAN	2.96	3.39	22.8	98.1	111	50.4	77.5	10.7	4.96	2.98	3.78	2.21
MAX	10	17	124	685	541	118	300	30	13	6.7	24	3.1
MIN	2.0	2.5	3.7	7.4	21	15	12	5.2	3.3	2.3	2.2	1.8
CFSM	.20	.23	1.55	6.67	7.55	3.43	5.27	.73	.34	.20	.26	.15
IN.	.23	.26	1.79	7.70	7.86	3.96	5.89	.84	.38	.23	.30	.17

CAL YR 1981 TOTAL 4623.0 MEAN 12.7 MAX 283 MIN 2.0 CFSM .86 IN 11.70
WTR YR 1982 TOTAL 11693.5 MEAN 32.0 MAX 685 MIN 1.8 CFSM 2.18 IN 29.59

02388320 HEATH CREEK BELOW ROCKY MOUNTAIN DAMSITE, NEAR ARMUCHEE, GA.

LOCATION.--Lat 34°21'18", long 85°15'50", Floyd County, Hydrologic Unit 03150103, on right bank 0.6 mi (1.0 km) downstream from bridge on Antioch Road, 3.4 mi (5.5 km) upstream from Little Armuchee Creek, and 9.7 mi (15.6 km) northwest of Rome.

DRAINAGE AREA.--16.6 mi^2 (43.0 km^2).

PERIOD OF RECORD.--March to September 1982.

GAGE.--Water-stage recorder. Altitude of gage is 645 ft (197 m), from topographic map.

REMARKS.--Records fair except those of no gage-height record, July 11 to Aug. 3, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 516 ft^3/s (14.6 m^3/s) Apr. 25, 1982, gage height, 5.98 ft (1.823 m); minimum daily discharge, 2.6 ft^3/s (0.074 m^3/s) Sept. 8-11, 1982.

EXTREMES FOR MARCH 2, 1982 TO SEPTEMBER 30, 1982.--Peak discharge above base of 400 ft^3/s (11.3 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Apr. 25	1930	*516	14.6	5.98	1.823

Minimum daily discharge, 2.6 ft^3/s (0.074 m^3/s) Sept. 8-11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1						---	17	41	8.5	8.3	3.4	3.1
2						85	17	34	7.1	5.8	3.1	3.5
3						66	19	29	6.8	5.3	3.0	3.0
4						54	16	25	8.6	4.9	2.8	2.8
5						45	38	22	8.1	4.5	2.8	2.8
6						48	32	20	6.8	4.1	2.9	2.7
7						126	26	20	6.4	4.0	2.7	2.7
8						83	54	36	6.2	3.9	2.8	2.6
9						64	76	20	6.0	3.9	3.2	2.6
10						53	53	17	5.8	4.5	28	2.6
11						45	42	15	5.5	4.0	17	2.6
12						40	35	14	5.4	3.7	6.2	2.7
13						35	30	13	6.3	3.5	4.1	2.8
14						31	187	12	5.7	3.2	3.6	3.0
15						76	113	12	5.4	3.2	3.3	2.8
16						85	82	11	5.3	3.3	3.2	2.8
17						133	195	10	5.6	3.2	7.8	2.9
18						126	150	10	5.5	3.1	5.4	2.8
19						86	118	9.7	5.2	3.0	3.9	2.9
20						65	111	9.9	5.0	3.1	3.5	2.9
21						53	111	10	4.9	3.1	3.3	2.9
22						47	78	9.3	5.3	3.1	3.1	2.9
23						38	59	12	5.4	3.3	3.0	3.1
24						34	48	11	5.0	3.1	3.0	3.1
25						30	243	9.6	4.8	3.0	2.9	4.5
26						27	341	9.2	5.3	3.0	2.9	3.8
27						24	132	8.6	17	3.0	2.8	3.3
28						22	87	8.2	14	2.8	3.3	3.1
29						21	64	7.7	10	2.9	2.7	3.0
30						20	50	7.4	8.0	3.4	2.7	3.1
31						19	---	7.7	---	3.3	2.8	---
TOTAL						---	2624	481.3	204.9	116.5	145.2	89.4
MEAN						---	87.5	15.5	6.83	3.76	4.68	2.98
MAX						---	341	41	17	8.3	28	4.5
MIN						---	16	7.4	4.8	2.8	2.7	2.6
CFSM						---	5.27	.93	.41	.23	.28	.18
IN.						---	5.88	1.08	.46	.26	.33	.20

02388500 OOSTANAULA RIVER NEAR ROME, GA.

LOCATION.--Lat 34°18'02", long 85°08'30", Floyd County, Hydrologic Unit 03150103, on left bank 1.2 mi (1.9 km) upstream from Dry Creek, 4.5 mi (7.2 km) north of Rome, 4.5 mi (7.2 km) upstream from confluence with Etowah River, and 6.5 mi (10.5 km) downstream from Armuchee Creek.

DRAINAGE AREA.--2,120 mi^2 (5,490 km^2).

PERIOD OF RECORD.--October 1939 to current year, in reports of the U.S. Geological Survey. Gage-height records collected at site 4.2 mi (6.8 km) downstream since 1890 are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 561.70 ft (171.206 m), National Geodetic Vertical Datum of 1929. Oct. 1, 1939, to Dec. 7, 1950, water-stage recorder at site 3.2 mi (5.1 km) downstream at same datum. Since Oct. 1, 1939, auxiliary water-stage recorder at Fifth Avenue Bridge, 4.2 mi (6.8 km) downstream. Nonrecording gage at site of auxiliary gage used as base gage for records published as Coosa River at Rome, Jan. 1, 1897, to Dec. 31, 1903.

REMARKS.--Records good. Flow regulated by Carters Lake and re-regulation dam since 1975. (See "Lakes and Reservoirs in Mobile River Basin," stations 02381400 and 02382400.) Records of chemical analyses for the water years 1968-74, are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--43 years, 3,644 ft^3/s (103.2 m^3/s), 23.34 in/yr (593 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 47,000 ft^3/s (1,330 m^3/s) Jan. 23, 1947; maximum gage height, 35.13 ft (10.708 m) Jan. 22, 1947; minimum daily discharge, 408 ft^3/s (11.6 m^3/s) Oct. 25, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1834, 40.3 ft (12.28 m) in April 1886, at site of present auxiliary gage, from information by Georgia Department of Archives.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 33,600 ft^3/s (952 m^3/s) Jan. 5; maximum gage height, 33.03 ft (10.068 m) Jan. 5 (backwater from Etowah River); minimum daily discharge, 520 ft^3/s (14.7 m^3/s) Oct. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	759	838	4220	9530	5040	17000	3280	4900	1770	2030	1660	1210
2	977	805	6540	10300	7290	13700	2440	3920	1810	2070	1660	1350
3	1270	720	6440	13700	13700	11200	2040	3020	1560	1740	1680	1880
4	686	651	4810	26900	19300	8470	2170	2950	1570	1390	1720	3390
5	612	670	3160	32400	23700	7340	2360	2840	1690	1070	1590	2340
6	720	712	2040	29100	23200	7020	2580	2730	1300	966	1530	1560
7	655	841	1720	27800	22200	8620	3300	2710	1180	996	1280	1280
8	661	896	2200	26100	20000	10600	3520	3030	1240	1080	1120	1180
9	664	805	1990	24600	15700	11100	3680	3710	1310	1050	1090	1170
10	730	726	1230	21200	13700	9930	3590	3810	1350	1100	1240	1290
11	677	687	1090	11800	13700	7080	3160	3090	1270	1040	1530	1260
12	675	670	1050	6770	13200	6030	2340	2880	1230	1090	2690	966
13	682	642	1030	6830	10900	5310	2680	2530	1380	1910	3050	929
14	730	650	1130	5800	7020	4740	5960	2420	1500	2070	2880	1090
15	750	615	1850	4000	5240	4390	5230	1900	1460	1810	2170	1070
16	725	588	2730	2960	6330	5900	4940	1710	1440	1590	1380	1050
17	716	606	2580	2380	13000	9290	4670	1570	1430	1710	1470	2120
18	607	606	2100	2310	14300	10900	6740	1480	1610	1540	1810	2530
19	540	608	2260	2550	13600	9050	6950	1600	1610	1720	2040	1780
20	520	670	1930	3500	11600	6340	6140	1840	1410	1600	1700	1080
21	530	700	1320	6920	7100	5050	5960	1720	1100	1690	1490	760
22	595	638	1360	12500	4930	4310	5630	1750	964	1640	1200	718
23	585	612	1710	13500	4390	4090	4420	1830	925	1520	980	772
24	588	696	2650	14700	4410	4240	3820	1790	984	1620	1080	766
25	610	725	4560	13900	5070	3900	5260	2020	1150	1650	1410	799
26	833	773	6910	11000	5030	3670	12500	2870	1110	1300	1560	795
27	1260	797	7330	7580	12700	3550	14600	2810	1040	1190	1290	725
28	1820	2710	5640	6980	18900	3200	13900	2470	1050	1190	1380	824
29	1960	3660	3900	6560	---	2860	8200	2200	1200	1120	1380	845
30	1340	2920	3040	5250	---	2870	5660	2030	1400	1440	1320	825
31	1000	---	3720	3640	---	3550	---	1710	---	1390	1080	---
TOTAL	25477	28237	94240	373060	335250	215300	157720	77840	40043	45322	49460	38354
MEAN	822	941	3040	12030	11970	6945	5257	2511	1335	1462	1595	1278
MAX	1960	3660	7330	32400	23700	17000	14600	4900	1810	2070	3050	3390
MIN	520	588	1030	2310	4390	2860	2040	1480	925	966	980	718

CAL YR 1981 TOTAL 785442 MEAN 2152 MAX 14800 MIN 520 MEAN† 2148 CFSM† 1.01 IN† 13.75
WTR YR 1982 TOTAL 1480303 MEAN 4056 MAX 32400 MIN 520 MEAN† 4056 CFSM† 1.91 IN† 25.97

† ADJUSTED FOR CHANGE IN CONTENTS IN CARTERS LAKE AND CARTERS RE-REGULATION DAM.

02388520 OOSTANAULA RIVER AT ROME, GA.

LOCATION.--Lat 34°16'13", long 85°10'24", Floyd County, Hydrologic Unit 03150103, at Southern Railway bridge at pumping station at city of Rome water works, 1.2 mi (1.9 km) upstream from confluence with Etowah River.

DRAINAGE AREA.--2,150 mi^2 (5,570 km^2), approximately.

PERIOD OF RECORD.--August 1974 to current year.

REMARKS.--Flow regulated by Carters Lake and re-regulation dam. (See "Lakes and Reservoirs in Mobile River Basin," stations 02381400 and 02382400). Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey. Discharge obtained from gaging station 02388500, Oostanaula River near Rome, Ga.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	TEMPER-ATURE, AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT									
28...	1400	1790	181	7.5	7.5	14.5	22.5	7.2	--
NOV									
24...	1200	725	175	7.6	7.5	9.0	11.0	9.4	82
DEC									
30...	1315	3040	106	7.4	7.6	6.5	8.0	11.4	96
JAN									
28...	1145	6850	83	7.1	7.3	4.0	7.0	11.4	87
FEB									
25...	1330	5700	73	--	7.3	10.0	10.0	10.0	88
APR									
01...	1330	3260	98	7.4	7.5	14.0	21.5	9.1	88
28...	1015	14500	--	7.1	7.0	16.0	21.0	7.8	81
MAY									
26...	1300	3100	95	7.3	7.3	21.5	26.5	7.4	85
JUN									
28...	1000	1110	143	7.4	7.4	24.0	25.0	6.4	78
JUL									
29...	1315	1130	120	7.4	--	28.0	30.5	5.5	70
AUG									
24...	0815	1300	108	7.3	7.6	24.0	22.5	6.3	76
SEP									
28...	0930	890	139	7.4	7.4	19.0	20.5	6.8	75

DATE	TUR-BID-ITY (JTU)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, CON-FIRMED (MPN)	COLI-FORM, FECAL, EC BROTH (MPN)	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	ALKA-LINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)
OCT									
28...	20	--	1.4	2300	930	88	24	64	37
NOV									
24...	8	--	.8	--	430	60	1.0	59	--
DEC									
30...	18	--	.7	9300	2100	42	5.0	37	30
JAN									
28...	23	--	.7	2300	490	42	16	26	31
FEB									
25...	17	--	.7	7900	790	38	6.0	32	34
APR									
01...	10	--	1.1	17000	2200	42	7.0	35	23
28...	20	--	1.7	110000	23000	44	12	32	14
MAY									
26...	25	--	.8	23000	790	54	15	39	58
JUN									
28...	12	--	--	34000	5000	58	6.0	52	27
JUL									
29...	8	10	.9	3300	1300	64	20	44	18
AUG									
24...	13	9	.9	1700	490	68	25	43	10
SEP									
28...	8	7	.9	1700	80	50	3.0	47	7

02388520 OOSTANAULA RIVER AT ROME, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT					
28...	.28	.100	--	.430	5.5
NOV					
24...	.22	.040	--	.540	5.0
DEC					
30...	.08	.380	--	.100	3.0
JAN					
28...	.36	.020	--	.100	2.0
FEB					
25...	.35	.040	--	.120	<1.0
APR					
01...	.54	.060	--	.130	1.0
28...	.21	.080	--	.140	--
MAY					
26...	.34	.030	--	.200	2.0
JUN					
28...	.32	.110	--	.300	2.5
JUL					
29...	.30	.020	.30	.240	--
AUG					
24...	.32	.060	.40	.220	<1.0
SEP					
28...	.34	.040	.20	.420	2.0

02388530 OOSTANAULA RIVER AT 5TH AVENUE, AT ROME, GA.

LOCATION.--Lat 34°15'24", long 85°10'18", Floyd County, Hydrologic Unit 03150103, at Fifth Avenue Bridge at Rome, and 0.3 mi (0.5 km) upstream from confluence with Etowah River.

DRAINAGE AREA.--2,150 mi^2 (5,570 km^2), approximately.

PERIOD OF RECORD.--October 1939 to current year. October 1971 to current year in reports of U.S. Geological Survey. Gage-height records since 1890 are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 561.70 ft (171.206 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Flow regulated by Carters Lake and re-regulation dam since 1975. (See "Lakes and Reservoirs in Mobile River Basin," stations 02381400 and 02382400).

EXTREMES FOR PERIOD OF RECORD.--Since October 1939, maximum gage height, 34.5 ft (10.52 m) Jan. 22, 1947. From 1890 to September 1939, maximum gage height, 37.2 ft (11.34 m) Jan. 15, 1892.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum gage height since at least 1834, 40.3 ft (12.28 m) in April 1886, from information by Georgia Department of Archives.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 29.65 ft (9.037 m) Feb. 4.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.11	3.41	7.07	12.74	7.94	17.34	7.09	12.01	6.77	6.34	4.56	4.41
2	4.24	3.36	8.86	12.46	10.79	17.60	6.71	10.12	6.81	6.04	4.59	4.61
3	4.68	3.52	8.67	15.42	24.88	16.02	5.88	8.64	6.91	5.61	5.39	4.96
4	3.26	3.47	7.39	26.69	29.36	14.01	5.22	9.89	7.58	4.38	5.32	6.20
5	3.14	3.47	6.16	28.23	26.47	13.06	5.67	9.70	7.37	4.02	5.51	5.04
6	4.54	3.51	4.82	25.86	23.56	12.13	7.08	9.53	4.71	5.04	4.35	4.32
7	3.71	3.62	4.48	24.14	22.45	11.66	7.43	9.53	4.43	5.05	4.07	5.09
8	3.73	3.43	5.23	23.86	22.48	13.43	8.02	10.06	5.85	5.68	3.97	5.01
9	3.70	3.33	5.20	23.19	21.53	14.25	9.89	7.71	5.89	5.20	4.07	4.95
10	3.82	3.50	4.46	21.55	20.27	13.49	8.82	7.38	5.93	5.36	5.49	5.07
11	3.23	3.75	4.27	16.25	19.19	11.64	6.72	8.14	4.99	4.10	5.09	5.07
12	3.23	3.74	4.17	12.45	18.49	10.67	5.81	7.93	4.26	4.09	6.50	3.64
13	3.75	3.70	3.63	12.25	17.06	9.65	6.57	7.87	4.48	6.13	7.70	3.68
14	3.80	3.69	3.81	11.49	14.51	7.60	10.60	7.97	4.59	5.74	8.04	5.43
15	3.83	3.10	4.97	10.08	12.89	7.64	11.13	6.91	5.38	5.47	5.04	5.15
16	3.77	2.99	5.76	8.39	13.79	10.25	11.22	5.03	5.35	5.43	4.31	5.24
17	3.77	3.84	5.66	6.37	18.71	12.88	10.87	4.87	5.31	5.59	6.63	6.30
18	3.13	3.88	5.26	7.45	19.98	15.26	11.12	5.77	5.46	4.53	7.14	5.17
19	2.93	3.89	5.29	6.77	19.27	12.97	11.08	5.82	5.44	4.66	7.27	4.51
20	3.03	3.97	4.69	7.59	17.95	10.40	13.24	5.75	4.41	6.16	6.82	3.82
21	3.02	4.00	4.01	10.02	15.02	7.99	13.28	6.29	4.09	6.22	6.52	3.40
22	3.19	3.12	4.86	13.65	12.97	7.59	12.20	5.77	4.83	5.94	4.14	3.30
23	3.24	3.06	5.20	14.25	11.35	8.98	10.86	5.04	4.82	6.49	3.87	4.45
24	3.31	4.13	5.96	14.64	10.69	9.12	9.67	5.26	4.84	4.90	5.59	4.47
25	3.21	4.18	6.98	14.16	11.13	8.82	9.72	6.75	4.97	4.86	6.11	4.52
26	3.70	4.22	9.19	12.73	11.13	8.59	21.41	7.48	4.95	4.35	6.28	3.37
27	4.32	4.29	9.44	10.61	15.80	8.21	22.40	7.52	4.08	4.79	4.79	3.29
28	4.83	5.68	8.10	10.05	18.08	6.16	19.63	7.22	4.41	4.50	5.83	4.56
29	4.88	6.11	6.99	9.75	---	6.01	15.58	6.75	5.46	4.40	4.18	4.62
30	4.30	5.57	6.26	8.70	---	6.65	14.20	6.82	5.65	4.74	4.11	4.59
31	3.87	---	7.01	6.55	---	7.15	---	5.72	---	4.77	4.31	---
MEAN	3.72	3.85	5.93	14.14	17.42	10.88	10.64	7.46	5.33	5.18	5.41	4.61
MAX	4.88	6.11	9.44	28.23	29.36	17.60	22.40	12.01	7.58	6.49	8.04	6.30
MIN	2.93	2.99	3.63	6.37	7.94	6.01	5.22	4.87	4.08	4.02	3.87	3.29

WTR YR 1982 MEAN 7.82 MAX 29.36 MIN 2.93

02389000 ETOWAH RIVER NEAR DAWSONVILLE, GA.

LOCATION.--Lat 34°22'57", long 84°03'21", Dawson County, Hydrologic Unit 03150104, on left bank 0.4 mi (0.6 km) upstream from Palmer Creek, 0.5 mi (0.8 km) upstream from bridge on State Highway 53, 1.2 mi (1.9 km) downstream from Russell Creek, 4 mi (6.4 km) southeast of Dawsonville, and 7.5 mi (12.1 km) upstream from Shoal Creek.

DRAINAGE AREA.--107 mi^2 (277 km^2), revised.

PERIOD OF RECORD.--November 1970 to current year. Water-discharge records for the period April 1940 to Sept. 1976 are in reports published by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
FEB 09...	0800	505	17	15	6.7	6.8	8.0	10.5
SEP 02...	0630	240	19	20	6.8	6.8	20.5	7.8

DATE	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (NTU)	HARDNESS (MG/L AS CACO3)	HARDNESS NONCARBONATE (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)
FEB 09...	5	6.5	5	2.0	1.0	.5	.9	27	.2	.6	3.0	2.2
SEP 02...	17	9.5	5	.00	1.2	.6	1.2	31	.2	.5	8.0	2.0

DATE	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)
FEB 09...	1.2	<.1	6.9	20	--	27.3	.16	.15	.050	.060	.18
SEP 02...	1.6	<.1	9.0	32	21	20.7	<.10	<.10	.020	<.010	.28

DATE	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN DISSOLVED (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)
FEB 09...	.05	.23	.11	.26	.39	.050	.040	1.2	10	1	<1
SEP 02...	--	.30	--	--	--	.030	.010	1.5	10	1	<1

DATE	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	SELENIUM, DISSOLVED (UG/L AS SE)	ZINC, DISSOLVED (UG/L AS ZN)
FEB 09...	<1	<10	3	49	3	1	19	<.1	<1.0	<1	5
SEP 02...	1	10	5	91	3	2	10	<.1	<.1	<1	4

02392000 ETOWAH RIVER AT CANTON, GA.

LOCATION.--Lat 34°14'23", long 84°29'47", Cherokee County, Hydrologic Unit 03150104, on left bank 100 ft (30 m) downstream from bridge on State Highway 5 spur and 140 at Canton, 0.8 mi (1.3 km) upstream from Canton Creek, and 1.8 mi (2.9 km) downstream from Hickory Log Creek.

DRAINAGE AREA.--613 mi² (1,590 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1892 to December 1905 (prior to 1896, gage heights only), October 1936 to current year. Monthly discharge only for some periods, published in WSP 1304. Gage heights collected at same site since 1892 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 1906: 1946(M). WRD GA-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 844.55 ft (257.419 m) National Geodetic Vertical Datum of 1929. March 1892 to December 1905, nonrecording gage at site 100 ft (30 m) upstream at datum 2.0 ft (0.61 m) higher. Mar. 16, 1937, to Jan. 17, 1939, nonrecording gage at site 100 ft (30 m) upstream at present datum. Water-stage recorder at Allatoona Reservoir is used as an auxiliary gage for this station.

REMARKS.--Records good.

AVERAGE DISCHARGE.--55 years (1896-1905, 1936-82), 1,246 ft³/s (35.29 m³/s), 27.60 in/yr (701 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32,300 ft³/s (915 m³/s) Jan. 7, 1946, gage height, 26.7 ft (8.14 m); minimum, 178 ft³/s (5.04 m³/s) Sept. 29, 30, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge known, 36,700 ft³/s (1,040 m³/s) in January 1892, gage height, 25.0 ft (7.62 m), present datum, from National Weather Service.

Maximum stage known since at least 1892, that of Jan. 7, 1946.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 6,500 ft³/s (184 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Jan. 4	1600	14000	396	19.60	5.974	Feb. 3	2000	*24100	683	24.45	7.452

Minimum discharge, 193 ft³/s (5.47 m³/s), Oct. 9, gage height, 1.27 ft (0.397 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	204	291	832	3320	1460	2100	1160	1640	1120	855	1060	629
2	204	281	1090	1720	2550	1910	1130	1550	1180	738	991	735
3	201	272	782	4030	19300	1720	1160	1480	1010	683	767	786
4	198	269	577	12600	19400	1590	1190	1410	1060	671	675	668
5	201	268	481	8520	5230	1490	1300	1360	1130	739	623	607
6	204	288	426	3270	3860	1430	1520	1320	1030	687	621	574
7	201	297	396	2420	3220	2340	1280	1300	942	643	610	558
8	196	270	377	1970	2720	2310	1270	1890	901	658	652	545
9	195	254	360	1570	2560	1800	1750	1700	874	688	1040	531
10	210	253	337	1270	2790	1610	1500	1400	860	969	1470	526
11	264	253	323	1070	2260	1520	1330	1300	839	1740	2150	535
12	237	252	319	970	1960	1450	1240	1250	824	1230	1620	714
13	216	248	317	1020	1810	1400	1190	1200	946	901	1130	690
14	207	242	372	1020	1650	1360	2690	1170	980	767	963	957
15	201	243	593	970	1560	1420	2240	1130	858	768	950	725
16	201	244	582	920	1760	1960	1600	1100	815	797	816	620
17	204	245	490	890	2720	1830	1540	1100	798	811	1500	567
18	225	243	453	880	2470	1880	1770	1140	804	983	2180	542
19	285	240	414	870	1980	1590	1530	1430	785	894	1700	525
20	263	248	400	980	1760	1480	1590	1340	746	797	1160	511
21	226	267	571	1740	1620	1410	1580	1530	714	707	938	501
22	221	265	446	2740	1500	1400	1420	1260	716	702	842	483
23	266	247	510	1820	1400	1340	1320	1330	747	909	770	468
24	414	281	674	1840	1340	1290	1250	1800	717	744	748	461
25	386	397	938	1510	1310	1280	1840	1350	683	801	749	470
26	544	352	1200	1290	1280	1260	4830	1270	677	780	708	500
27	731	322	871	1150	1790	1200	4240	1190	681	693	667	567
28	535	424	699	1070	2570	1170	2640	1390	890	651	670	574
29	405	596	605	1010	---	1150	2110	1270	1100	639	656	503
30	337	476	555	972	---	1160	1830	1110	999	749	611	476
31	306	---	720	991	---	1150	---	1090	---	1040	609	---
TOTAL	8688	8828	17710	66413	95830	48000	53040	41800	26426	25434	30646	17548
MEAN	280	294	571	2142	3423	1548	1768	1348	881	820	989	585
MAX	731	596	1200	12600	19400	2340	4830	1890	1180	1740	2180	957
MIN	195	240	317	870	1280	1150	1130	1090	677	639	609	461
CFSM	.46	.48	.93	3.49	5.58	2.53	2.88	2.20	1.44	1.34	1.61	.95
IN.	.53	.54	1.07	4.03	5.82	2.91	3.22	2.54	1.60	1.54	1.86	1.06

CAL YR 1981 TOTAL 222921 MEAN 611 MAX 4570 MIN 195 CFSM 1.00 IN 13.53
WTR YR 1982 TOTAL 440363 MEAN 1206 MAX 19400 MIN 195 CFSM 1.97 IN 26.72

02392000 ETOWAH RIVER AT CANTON, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.31	1.66	2.73	7.70	3.98	5.27	3.38	4.35	3.31	2.77	3.18	2.32
2	1.31	1.64	3.24	4.50	5.76	4.88	3.32	4.16	3.41	2.54	3.04	2.53
3	1.30	1.62	2.62	8.20	22.24	4.50	3.38	4.02	3.09	2.43	2.59	2.63
4	1.29	1.61	2.21	18.70	22.38	4.23	3.44	3.88	3.18	2.40	2.41	2.40
5	1.30	1.61	2.02	14.30	10.62	4.04	3.66	3.78	3.32	2.54	2.31	2.28
6	1.31	1.66	1.91	7.60	8.70	3.91	4.10	3.71	3.13	2.43	2.30	2.21
7	1.30	1.67	1.84	5.90	7.50	5.75	3.62	3.66	2.94	2.35	2.28	2.18
8	1.28	1.61	1.80	5.00	6.50	5.68	3.61	4.85	2.86	2.38	2.37	2.15
9	1.28	1.58	1.77	4.20	6.19	4.66	4.56	4.45	2.81	2.44	3.15	2.12
10	1.37	1.57	1.72	3.60	6.64	4.28	4.07	3.87	2.78	3.00	4.01	2.11
11	1.56	1.57	1.69	3.20	5.59	4.09	3.72	3.67	2.74	4.55	5.37	2.13
12	1.53	1.57	1.68	3.00	4.94	3.96	3.55	3.56	2.71	3.51	4.30	2.49
13	1.46	1.56	1.68	3.10	4.68	3.86	3.44	3.46	2.95	2.86	3.31	2.44
14	1.43	1.55	1.79	3.10	4.36	3.78	6.40	3.40	3.02	2.59	2.99	2.97
15	1.41	1.55	2.25	3.00	4.17	3.90	5.55	3.32	2.78	2.60	2.96	2.51
16	1.41	1.55	2.23	2.90	4.59	4.98	4.26	3.26	2.69	2.65	2.69	2.30
17	1.42	1.55	2.04	2.85	6.49	4.73	4.14	3.26	2.66	2.68	4.07	2.20
18	1.49	1.55	1.97	2.82	6.00	4.81	4.61	3.34	2.67	3.03	5.42	2.15
19	1.65	1.54	1.88	2.80	5.03	4.25	4.11	3.91	2.63	2.85	4.46	2.11
20	1.59	1.56	1.85	3.02	4.58	4.03	4.25	3.75	2.55	2.65	3.38	2.08
21	1.49	1.61	2.20	4.53	4.29	3.89	4.23	4.13	2.49	2.47	2.94	2.06
22	1.47	1.60	1.95	6.53	4.06	3.85	3.89	3.57	2.49	2.47	2.74	2.03
23	1.60	1.56	2.08	4.71	3.87	3.73	3.69	3.72	2.56	2.88	2.60	2.00
24	1.92	1.64	2.41	4.75	3.75	3.65	3.56	4.66	2.49	2.55	2.56	1.98
25	1.86	1.85	2.94	4.08	3.69	3.62	4.74	3.76	2.43	2.66	2.56	2.00
26	2.19	1.75	3.46	3.65	3.63	3.58	10.16	3.61	2.41	2.62	2.48	2.06
27	2.57	1.69	2.80	3.36	4.64	3.46	9.21	3.45	2.42	2.45	2.39	2.20
28	2.17	1.90	2.46	3.20	6.21	3.40	6.33	3.84	2.84	2.36	2.40	2.21
29	1.90	2.25	2.27	3.08	---	3.37	5.29	3.59	3.26	2.34	2.37	2.06
30	1.76	2.06	2.17	3.01	---	3.37	4.72	3.27	3.05	2.56	2.28	2.01
31	1.70	---	2.50	3.04	---	3.37	---	3.24	---	3.13	2.28	---
MEAN	1.57	1.66	2.20	4.95	6.61	4.16	4.57	3.76	2.82	2.70	3.04	2.23
MAX	2.57	2.25	3.46	18.70	22.38	5.75	10.16	4.85	3.41	4.55	5.42	2.97
MIN	1.28	1.54	1.68	2.80	3.63	3.37	3.32	3.24	2.41	2.34	2.28	1.98

WTR YR 1982 MEAN 3.33 MAX 22.38 MIN 1.28

02392000 ETOWAH RIVER AT CANTON, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1968 to current year.
PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: June 1971 to September 1976.
REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.
EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 26.0°C July 24, 1972; minimum recorded, 2.5°C Dec. 26, 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	TEMPER-ATURE, AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT 27...	0815	780	41	39	7.1	6.8	11.5	14.5	9.5	--
JAN 27...	0745	1170	33	38	6.9	7.0	2.0	-6.0	12.9	94
APR 28...	0610	2810	33	--	6.9	6.9	13.5	13.5	8.0	79
JUN 28...	0545	770	33	34	7.3	7.0	22.5	23.0	7.5	90
JUL 28...	0700	665	--	35	7.2	7.2	25.0	28.0	7.5	91

DATE	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	HARD-NESS (MG/L AS CACO3)	ALKA-LINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 27...	24	1.1	230	--	16	--	.04	<.020	.060	5.5
JAN 27...	17	.2	50	--	10	--	.31	.050	.040	10
APR 28...	30	1.5	2200	14	11	56	.24	.060	.080	--
JUN 28...	8	--	130	--	13	--	.14	.060	.020	1.0
JUL 28...	15	1.3	230	--	15	--	.12	<.020	.040	1.0

02394000 ETOWAH RIVER AT ALLATOONA DAM, ABOVE CARTERSVILLE, GA.

LOCATION.--Lat 34°09'47", long 84°44'28", Bartow County, Hydrologic Unit 03150104, on right bank 0.8 mi (1.3 km) downstream from Allatoona Dam, 2 mi (3.2 km) upstream from Nashville, Chattanooga, & St. Louis Railway bridge, and 3 mi (4.8 km) east of Cartersville.

DRAINAGE AREA.--1,120 mi^2 (2,900 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1938 to current year. Prior to October 1949, published as Etowah River above Cartersville.

REVISED RECORDS.--WSP 1032: 1944. WRD GA-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 686.92 ft (209.373 m), National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Prior to Dec. 19, 1938, nonrecording gage at same site and datum.

REMARKS.--Records good. Flow regulated by Allatoona Reservoir since December 1949. (See "Lakes and Reservoirs in Mobile River Basin," station 02393500.)

AVERAGE DISCHARGE.--44 years, 1,916 ft^3/s (54.26 m^3/s), 23.23 in/yr (590 mm/yr), adjusted for storage since 1950.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 40,400 ft^3/s (1,140 m^3/s) Jan. 8, 1946, gage height, 20.8 ft (6.34 m), from rating curve extended above 26,000 ft^3/s (736 m^3/s); minimum daily, 152 ft^3/s (4.30 m^3/s) Oct. 15, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,060 ft^3/s (257 m^3/s) Feb. 2, gage height, 7.43 ft (2.265 m); minimum daily, 275 ft^3/s (7.79 m^3/s) Jan. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1400	351	671	1170	1970	5420	2130	5370	3110	1630	353	3260
2	1410	651	341	312	3060	5540	1580	2000	3110	1630	1630	964
3	360	687	474	354	661	5540	342	5690	4750	346	1560	969
4	358	680	1000	342	871	5550	346	5700	4750	342	2060	330
5	2180	673	344	402	811	5590	964	5750	362	2070	343	326
6	1020	672	335	306	1610	314	979	5710	360	2040	348	1960
7	1030	360	995	2210	4900	343	2110	5770	2620	2970	349	1940
8	1030	343	1040	3230	7110	3250	2810	372	2610	2060	343	1930
9	1030	673	1050	3670	7120	3190	2790	370	2620	2060	2340	1930
10	368	995	1030	3580	7110	3190	361	2930	1230	345	1280	1940
11	371	998	972	5650	7120	3190	363	2950	358	342	2090	319
12	1030	1040	333	5520	7160	3230	991	3330	361	2180	3360	322
13	1030	1060	338	5430	7200	309	2420	4310	366	1510	4160	2760
14	1040	358	984	5430	7290	311	2450	2980	1650	1490	332	2290
15	1020	351	1000	5240	7410	2670	4290	369	1650	1500	324	2530
16	1050	1290	994	1040	7530	2690	4390	372	1650	1790	3520	3010
17	368	1300	991	3840	7610	3660	378	1910	1660	345	3540	330
18	373	1310	995	2210	7590	2680	375	1900	1640	352	3520	323
19	526	1310	327	2230	7600	2670	4840	1390	352	2770	3520	337
20	526	1300	329	2180	7680	309	4830	1390	355	2840	3520	311
21	522	355	1510	2210	7720	324	4820	1410	1660	2400	326	299
22	528	340	1520	2190	7740	3170	4840	339	1650	3080	322	1940
23	532	1480	1530	289	5510	3170	4860	349	1640	394	2880	1910
24	365	1510	325	287	5350	3190	375	2380	1640	353	3260	1910
25	372	1480	326	1520	5400	3190	412	2850	1650	353	3400	300
26	680	1470	326	1980	5420	3200	405	2840	354	1280	1290	298
27	679	1490	318	1970	315	324	981	2840	348	960	2910	2010
28	675	343	1180	1950	312	322	3640	2880	1640	958	328	2020
29	685	341	1180	1960	---	1570	6830	2960	1630	969	333	2030
30	680	1010	1180	275	---	1560	7490	1000	1960	985	936	2010
31	354	---	1200	283	---	1570	---	3090	---	349	953	---
TOTAL	23602	26221	25138	69260	147180	81236	74432	83501	49736	42693	55430	42808
MEAN	761	874	811	2234	5256	2621	2481	2694	1658	1377	1788	1427
MAX	2180	1510	1530	5650	7740	5590	7490	5770	4750	3080	4160	3260
MIN	354	340	318	275	312	309	342	339	348	342	322	298
MEAN†	439	477	1048	3574	6223	2574	3807	2305	1374	1275	1542	851
CFSM†	.39	.43	.94	3.19	5.56	2.30	3.40	2.06	1.23	1.14	1.38	.76
IN†	.45	.48	1.08	3.68	5.79	2.65	3.79	2.37	1.37	1.31	1.59	.85

CAL YR 1981 TOTAL 392518 MEAN 1075 MAX 4280 MIN 268 MEAN† 1056 CFSM† 0.94 IN† 12.80
WTR YR 1982 TOTAL 721237 MEAN 1976 MAX 7740 MIN 275 MEAN† 2096 CFSM† 1.87 IN† 25.40

† ADJUSTED FOR CHANGE IN CONTENTS IN ALLATOONA RESERVOIR.

02394000 ETOWAH RIVER AT ALLATOONA DAM, ABOVE CARTERSVILLE, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1968 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE (DEG C)	TEMPERATURE, AIR (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
NOV 23...	0915	5960	49	50	6.8	7.2	14.0	10.0	8.5	83
JAN 27...	0915	7640	--	45	7.4	7.0	3.5	.0	11.7	88
MAR 31...	0930	6900	--	39	6.7	6.7	10.0	18.0	10.2	91
MAY 25...	0700	4010	39	39	6.6	6.7	16.0	19.5	7.3	75
JUN 28...	0700	351	43	42	6.5	6.6	20.0	24.0	4.5	51
JUL 28...	0815	332	--	43	6.7	7.0	23.5	27.5	5.2	62
SEP 28...	0630	304	45	45	6.7	6.8	22.0	16.0	5.2	61

DATE	TURBIDITY (JTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	ALKALINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C. SUSPENDED (MG/L)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)
NOV 23...	6	<.1	--	17	12	.10	.060	.020	1.7	--	--
JAN 27...	29	.4	<20	12	3	.24	.120	.040	9.0	380	50
MAR 31...	17	1.0	20	11	6	.28	.050	.030	1.0	290	<50
MAY 25...	11	.5	50	14	2	.22	.060	.020	2.0	510	<50
JUN 28...	5	--	<20	14	<1	.18	.030	<.020	1.0	370	90
JUL 28...	2	.4	<20	16	2	.07	.070	<.020	--	70	60
SEP 28...	3	.7	<20	16	<1	.10	.060	<.020	2.0	120	50

02394980 ETOWAH RIVER NEAR EUHARLEE, GA.

LOCATION.--Lat 34°11'28", long 84°55'44", Bartow County, Hydrologic Unit 03150104, at Harden Bridge on county road, 1,000 ft (305 m) downstream from Ashpole Creek, and 3 mi (4.8 km) north of Euharlee.

DRAINAGE AREA.--1,610 mi2 (4,170 km2), revised.

PERIOD OF RECORD.--August 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey. Flow regulated by Allatoona Reservoir. (See "Lakes and Reservoirs in Mobile River Basin", station 02393500.)

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	TEMPER-ATURE, AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT 27...	1015	970	114	114	7.6	--	16.0	17.5	8.1	--
NOV 25...	0730	890	--	80	7.3	7.0	12.5	-1.0	9.1	86
DEC 29...	1030	930	--	95	7.2	7.6	7.5	6.0	11.2	94
JAN 27...	1045	1000	--	116	7.5	7.5	4.5	3.5	11.8	91
FEB 24...	1145	3900	79	81	--	7.4	9.0	24.0	10.6	93
MAR 31...	1045	820	94	96	7.4	7.4	12.5	21.0	10.1	95
APR 28...	0800	4000	71	--	7.2	7.2	16.0	16.0	8.6	89
MAY 25...	0830	1230	--	84	7.3	7.2	17.0	23.5	8.6	91
JUN 28...	0800	1140	120	124	7.5	7.4	22.0	24.0	7.1	83
JUL 28...	0930	770	--	117	7.5	7.6	24.0	34.0	7.2	86
AUG 24...	0600	1500	--	61	7.0	7.1	23.0	20.5	6.5	78
SEP 28...	0745	830	--	76	7.1	7.1	22.0	16.0	7.2	84

DATE	TUR-BID-ITY (JTU)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	ALKA-LINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)
OCT 27...	16	--	.8	2300	46	4.0	42	15
NOV 25...	13	--	.6	90	26	1.0	25	12
DEC 29...	6	--	1.7	--	36	4.0	32	11
JAN 27...	25	--	.5	170	52	17	35	7
FEB 24...	35	--	.7	270	40	8.0	32	37
MAR 31...	15	--	1.1	<20	38	4.0	34	4
APR 28...	44	--	1.5	4900	32	9.0	23	77
MAY 25...	17	--	.8	330	26	.00	32	22
JUN 28...	66	--	--	4600	52	3.0	49	139
JUL 28...	8	5	.8	490	48	8.0	40	9
AUG 24...	11	7	1.3	230	24	7.0	22	11
SEP 28...	6	3	.7	350	24	.00	25	3

02394980 ETOWAH RIVER NEAR EUHARLEE, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT					
27...	.24	.030	--	.080	4.5
NOV					
25...	.14	.060	--	.170	2.4
DEC					
29...	.22	.120	--	.020	8.0
JAN					
27...	.38	.100	--	.060	8.0
FEB					
24...	.32	.070	--	.080	<1.0
MAR					
31...	.43	.030	--	.030	<1.0
APR					
28...	.20	.040	--	.100	--
MAY					
25...	.31	.040	--	.060	2.0
JUN					
28...	.41	.080	--	.160	4.0
JUL					
28...	.19	.020	.20	.040	--
AUG					
24...	.12	.140	.40	.070	<1.0
SEP					
28...	.23	.150	<.20	.130	2.0

02395000 ETOWAH RIVER NEAR KINGSTON, GA.

LOCATION.--Lat 34°12'24", long 84°58'44", Bartow County, Hydrologic Unit 03150104, on downstream side of center pier of bridge on U.S. Highway 411, 1 mi (1.6 km) upstream from Two Run Creek, 1.5 mi (2.4 km) upstream from Connesena Creek, and 2.5 mi (4.0 km) southwest of Kingston.

DRAINAGE AREA.--1,630 mi^2 (4,220 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1928 to December 1931, October 1936 to current year. Monthly discharge only for some periods, published in WSP 1304, 1734.

REVISED RECORDS.--WSP 1304: 1929-30.

GAGE.--Water-stage recorder. Datum of gage is 609.97 ft (185.919 m) National Geodetic Vertical Datum of 1929 (Dixie Construction Co. bench mark). Prior to Aug. 11, 1928, nonrecording gage, Aug. 11, 1928, to Dec. 28, 1931, water-stage recorder, Nov. 16, 1936, to June 15, 1937, nonrecording gage, and June 16, 1937, to June 27, 1960, water-stage recorder, all 500 ft (152 m) upstream at same datum.

REMARKS.--Records good. Flow regulated by Allatoona Reservoir since December 1949. (See "Lakes and Reservoirs in Mobile River Basin," station 02393500.) Records of chemical analyses for the water years 1970-74 are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--49 years, 2,587 ft^3/s (73.26 m^3/s), 21.55 in/yr (547 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 42,700 ft^3/s (1,210 m^3/s) Apr. 9, 1938, gage height, 27.7 ft (8.44 m); minimum daily, 268 ft^3/s (7.59 m^3/s) Oct. 19, 1931.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, about 31 ft (9.4 m) Dec. 11, 1919, from information by local resident, discharge, 52,000 ft^3/s (1,470 m^3/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 28,000 ft^3/s (793 m^3/s) Feb. 3, gage height, 21.97 ft (6.696 m); minimum daily, 483 ft^3/s (13.7 m^3/s) Oct. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1550	572	1680	4790	2050	4560	2810	6700	3620	2500	832	1290
2	1510	726	1230	2720	4970	6640	2200	4190	3610	2170	1090	1370
3	1290	905	1020	4690	25000	6250	1630	6050	4940	1600	2130	1320
4	483	877	1070	10200	16700	6160	991	6450	5210	794	2400	1100
5	1290	879	1040	5110	4480	6130	1440	6360	2710	1490	1560	683
6	1520	876	644	2300	4030	2890	3070	6290	1130	2380	719	1540
7	1140	712	955	2080	5830	2820	3270	6290	1790	2360	579	2200
8	1190	531	1320	4700	8350	4300	3220	4480	2990	3200	714	2200
9	1170	694	1260	4340	8670	4460	5420	1980	2900	2380	1630	2190
10	1200	884	1300	4210	9030	4270	3160	2670	2760	1710	2180	2190
11	560	1190	1220	5330	8360	4180	1530	3820	1160	853	2380	1320
12	588	1050	906	5760	8100	4130	1350	3900	821	1370	2990	603
13	1220	1200	515	5840	7990	2260	2800	5010	868	2690	3750	2180
14	1210	1200	885	5710	7950	1200	4050	3550	1470	1900	2840	2160
15	1210	511	1430	5520	7940	2480	5430	2560	2050	1890	751	2740
16	1160	822	1410	2720	8430	3750	5840	1050	2010	2180	2200	3620
17	1180	1440	1380	3460	9240	4950	3980	1660	2030	1570	3900	1560
18	538	1450	1350	3390	8870	4860	3350	2510	2020	797	4410	631
19	557	1480	976	2850	8540	3860	4630	2310	1460	1810	4080	609
20	711	1480	584	3000	8340	2410	7050	2360	759	3120	3830	619
21	710	1150	578	3060	8290	1270	7210	3040	1280	2830	2290	561
22	698	533	1770	3140	8270	2680	6210	1500	1970	3120	718	1070
23	773	921	1810	2230	6620	3960	5860	1160	2020	2970	1500	2150
24	774	1630	1830	1760	5940	3900	3420	2350	1970	1000	3530	2100
25	628	1670	1090	2050	5970	3890	3310	3620	1950	964	4270	1490
26	941	1670	1520	2480	6000	3880	12000	3480	1430	1380	1920	551
27	1160	1690	1030	2750	3470	2460	10600	3490	794	1660	2220	1210
28	1100	1330	862	2680	2190	1020	6550	3520	1780	992	2200	2170
29	996	585	1640	2670	---	1620	8080	3070	2340	1440	667	2180
30	943	977	1600	1950	---	2260	9080	2570	2570	1430	862	2190
31	763	---	2500	1010	---	2260	---	3120	---	1310	1230	---
TOTAL	30763	31635	38405	114500	219620	111760	139541	111110	64412	57860	66432	47797
MEAN	992	1055	1239	3694	7844	3605	4651	3584	2147	1866	2143	1593
MAX	1550	1690	2500	10200	25000	6640	12000	6700	5210	3200	4410	3620
MIN	483	511	515	1010	2050	1020	991	1050	759	794	579	551

CAL YR 1981 TOTAL 563029 MEAN 1543 MAX 10600 MIN 483 MEAN† 1524 CFSM† 0.93 IN† 12.69
WTR YR 1982 TOTAL 1033835 MEAN 2832 MAX 25000 MIN 483 MEAN† 2952 CFSM† 1.81 IN† 24.58

† ADJUSTED FOR CHANGE IN CONTENTS IN ALLATOONA RESERVOIR.

02395000 ETOWAH RIVER NEAR KINGSTON, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1969 to June 1974. April 1981 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT					
05...	1430	539	4	5.8	--
05...	1435	539	5	7.3	--
JAN					
06...	1415	2150	69	401	--
06...	1420	2150	68	395	--
FEB					
02...	2330	14500	1590	62200	--
02...	2335	14500	1500	58700	--
03...	1245	27500	797	59200	--
03...	1250	27500	800	59400	--
04...	0905	18400	394	19600	--
04...	1840	12300	270	8970	--
04...	1845	12300	264	8770	--
MAR					
22...	1425	2210	24	143	--
22...	1430	2210	23	137	--
APR					
27...	0055	12300	500	16600	84
27...	0910	11600	341	10700	--
27...	0915	11600	326	10200	80
27...	1520	9840	232	6160	--
27...	1525	9840	235	6240	--
JUN					
14...	1430	875	13	31	--
14...	1435	875	13	31	--
JUL					
26...	1315	814	27	59	--
26...	1320	814	23	51	--
SEP					
07...	1345	632	9	15	--
07...	1350	632	8	14	--

DATE	TIME	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM
FEB										
04...	1620	<1	<1	1	4	10	17	25	43	71
APR										
27...	1430	<1	2	18	38	73	94	99	100	--

02395120 TWO RUN CREEK NEAR KINGSTON, GA.

LOCATION.--Lat 34°14'34", long 84°53'23", Bartow County, Hydrologic Unit 03150104, on left bank 200 ft (61 m) upstream from bridge on State Highway 20, 1.9 mi (3.1 km) upstream from Limekiln Branch, and 3 mi (4.8 km) east of Kingston.
DRAINAGE AREA.--33.1 mi^2 (85.7 km^2).
PERIOD OF RECORD.--May 1980 to current year.
GAGE.--Water-stage recorder. Altitude of gage is 730 ft (220 m), from topographic map.
REMARKS.--Records good.
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,180 ft^3/s (90.1 m^3/s) Feb. 3, 1982, gage height, 7.91 ft (2.411 m); minimum discharge, 7.0 ft^3/s (0.20 m^3/s) Oct. 8, 1981.
EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 500 ft^3/s (14.2 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 3	2100	1580	44.7	6.48	1.975	Apr. 14	1330	532	15.1	4.53	1.381
Feb. 3	0630	*3180	90.1	7.91	2.411	Apr. 25	2230	2000	56.6	6.91	2.106

Minimum discharge, 7.0 ft^3/s (0.20 m^3/s) Oct. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.9	9.5	27	58	77	146	40	88	27	42	14	12
2	8.1	8.3	21	37	268	110	38	79	25	25	14	12
3	7.7	8.3	16	680	1740	92	38	70	25	22	13	11
4	8.0	9.0	14	856	369	80	35	64	26	20	13	10
5	8.2	9.1	13	183	208	71	66	60	26	19	13	10
6	8.7	8.6	12	102	149	75	57	55	24	18	13	10
7	8.0	9.0	12	84	107	281	47	57	23	17	13	10
8	7.1	9.0	12	74	91	151	81	188	22	17	14	10
9	7.8	8.9	11	62	218	108	93	84	21	17	15	11
10	7.5	8.7	11	53	192	93	68	66	21	19	14	10
11	7.4	8.7	11	44	123	82	63	58	21	17	14	10
12	7.2	8.8	11	41	96	74	56	53	22	17	15	11
13	7.2	8.4	11	40	85	68	52	50	25	17	13	11
14	7.8	8.3	16	38	73	64	319	46	21	16	13	11
15	8.1	8.4	16	35	70	83	196	44	19	16	13	11
16	8.4	8.4	15	34	193	91	122	41	19	16	13	11
17	9.0	8.2	14	32	314	214	236	44	20	16	16	10
18	12	8.1	13	30	182	178	213	41	19	16	15	10
19	11	8.1	13	36	122	118	149	39	19	16	13	10
20	10	8.6	12	39	96	96	222	37	18	16	13	10
21	8.0	8.1	12	77	83	83	151	36	18	16	13	10
22	9.0	8.1	13	80	71	79	111	35	20	16	13	10
23	16	8.0	15	117	65	68	91	34	19	18	12	10
24	12	9.6	15	109	61	64	80	34	17	16	12	9.7
25	15	9.4	34	81	57	62	577	33	17	16	12	11
26	21	9.0	27	66	61	59	790	31	17	15	12	11
27	24	11	21	56	296	55	289	31	22	14	12	12
28	11	13	19	50	231	52	169	29	29	14	12	10
29	9.5	10	17	45	---	49	124	28	42	14	12	10
30	9.0	21	16	42	---	46	101	27	43	14	12	10
31	9.0	---	103	68	---	43	---	27	---	14	12	---
TOTAL	310.6	279.6	573	3349	5698	2935	4674	1609	687	546	408	314.7
MEAN	10.0	9.32	18.5	108	204	94.7	156	51.9	22.9	17.6	13.2	10.5
MAX	24	21	103	856	1740	281	790	188	43	42	16	12
MIN	7.1	8.0	11	30	57	43	35	27	17	14	12	9.7
CFSM	.30	.28	.56	3.26	6.16	2.86	4.71	1.57	.69	.53	.40	.32
IN.	.35	.31	.64	3.76	6.40	3.30	5.25	1.81	.77	.61	.46	.35

CAL YR 1981 TOTAL 8366.1 MEAN 22.9 MAX 313 MIN 7.1 CFSM .69 IN 9.40
WTR YR 1982 TOTAL 21383.9 MEAN 58.6 MAX 1740 MIN 7.1 CFSM 1.77 IN 24.03

02396000 ETOWAH RIVER AT ROME, GA.

LOCATION.--Lat 34°15'26", long 85°09'30", Floyd County, Hydrologic Unit 03150104, on downstream side of center pier of Southern Railway bridge in Rome, 2 mi (3.2 km) upstream from confluence with Oostanaula River.

DRAINAGE AREA.--1,820 mi^2 (4,710 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July to December 1903, August 1904 to June 1921 (published as "near Rome"), October 1938 to current year. Monthly discharge only for some periods, published in WSP 1304.

REVISED RECORDS.--WRD GA-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 561.70 ft (171.206 m) National Geodetic Vertical Datum of 1929. July 1 to Dec. 31, 1903, nonrecording gage at Second Avenue Bridge, 1 mi (1.6 km) downstream at different datum. Aug. 17, 1904, to June 30, 1921, nonrecording gage at Freemans Ferry, 5 mi (8.0 km) upstream at different datum. Since May 15, 1939, auxiliary water-stage recorder at Second Avenue Bridge, 1 mi (1.6 km) downstream.

REMARKS.--Records fair except those of no gage-height record, Oct. 3-19, Nov. 13-25, Jan. 10-20, Sept. 11-27, and those of daily flows less than 2,000 cfs for the period May 16 to Aug. 16, which are poor. Flow regulated by Allatoona Reservoir since 1949. (See "Lakes and Reservoirs in Mobile River Basin," station 02393500.)

AVERAGE DISCHARGE.--60 years (1904-20, 1938-82), 2,974 ft^3/s (84.22 m^3/s), 22.19 in/yr (564 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 55,000 ft^3/s (1,560 m^3/s) Dec. 11, 1919, gage height, over 28 ft (8.5 m), at former site at Freemans Ferry, computed from data at upstream stations; minimum daily, 360 ft^3/s (10.2 m^3/s) Oct. 10, 1904.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, that of Dec. 11, 1919. Flood of Apr. 9, 1938, reached a stage of 37.5 ft (11.43 m), discharge, 46,500 ft^3/s (1,320 m^3/s), from gage readings and discharge measurements by U.S. Army Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 30,100 ft^3/s (852 m^3/s) Feb. 4, maximum gage height, 32.81 ft (10.000 m) Feb. 4; minimum daily discharge, 625 ft^3/s (17.7 m^3/s) Dec. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1630	679	1580	4960	2320	3710	2600	7220	3800	2900	1450	1400
2	1620	702	1260	2960	3560	7380	3070	5540	3830	2430	1450	1490
3	1630	980	873	4150	24500	6920	2310	5330	4540	2400	2080	1460
4	737	991	945	15900	26300	6690	1360	6730	5190	1150	2060	1370
5	703	978	1340	8730	8060	6590	1550	6630	4400	950	2430	803
6	1820	968	756	3570	5210	5160	3480	6510	1400	2560	1000	777
7	1220	940	867	2440	6300	2990	3320	6520	1300	2560	860	2290
8	1300	627	1350	5040	9280	4350	3380	6450	3280	3250	800	2310
9	1270	651	1360	4520	10600	4920	5700	2910	3250	2580	830	2290
10	1340	961	1370	4470	11000	4660	4250	2550	3230	2620	2790	2280
11	732	1270	1330	5090	9740	4810	2100	4240	1900	1000	1900	2260
12	704	1280	1270	6010	9210	4550	1900	4160	1100	970	2630	752
13	1370	1290	625	5950	8960	3560	2830	4550	1180	2840	3660	1150
14	1340	1290	720	5800	8520	1660	4440	4470	1220	2120	4260	2700
15	1340	637	1450	5660	8330	2400	5710	3860	2320	2120	1400	2720
16	1330	715	1480	4050	8720	4260	6240	1500	2300	2170	1020	2720
17	1330	1540	1450	3110	10500	4670	5630	1400	2280	2300	3940	2600
18	758	1560	1420	4040	10700	6400	4260	2800	2260	1300	4400	900
19	680	1560	1310	3050	9900	4440	4220	2780	2240	1400	4130	800
20	818	1570	703	3070	9510	3460	7750	2350	1150	3170	3910	750
21	807	1480	683	3040	9070	1780	8090	3400	1050	3180	3740	720
22	801	626	1810	2990	8660	2360	6860	2440	2200	2800	905	700
23	849	777	1860	2320	6970	4360	6350	1450	2230	3810	868	2100
24	905	1720	1880	1720	6240	4300	5090	1750	2220	1650	3230	2050
25	719	1750	817	1940	6260	4270	3740	3780	2170	1550	3850	2100
26	926	1760	1370	2400	6330	4220	15800	3660	2170	1350	3340	710
27	1260	1790	948	2790	5390	3650	14500	3720	1000	2000	1790	705
28	1200	1660	857	2740	2980	1460	8610	3690	1300	1680	3170	2230
29	1080	639	1670	2720	---	1760	8800	3190	2540	1600	835	2240
30	1050	764	1660	2390	---	2670	9800	3550	2580	1530	798	2230
31	983	---	1800	1280	---	2600	---	2600	---	1550	1420	---
TOTAL	34252	34155	38814	128900	253120	127010	163740	121730	71630	65490	70946	49607
MEAN	1105	1139	1252	4158	9040	4097	5458	3927	2388	2113	2289	1654
MAX	1820	1790	1880	15900	26300	7380	15800	7220	5190	3810	4400	2720
MIN	680	626	625	1280	2320	1460	1360	1400	1000	950	798	700

CAL YR 1981 TOTAL 613297 MEAN 1680 MAX 10600 MIN 615 MEAN† 1661 CFSM† 0.91 IN† 12.39
WTR YR 1982 TOTAL 1159394 MEAN 3176 MAX 26300 MIN 625 MEAN† 3296 CFSM† 1.81 IN† 24.58

† ADJUSTED FOR CHANGE IN CONTENTS IN ALLATOONA RESERVOIR.

02396000 ETOWAH RIVER AT ROME, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1968 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	TEMPER-ATURE, AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT										
28...	1245	1350	119	120	7.9	7.6	16.0	21.0	8.9	--
NOV										
24...	1315	1350	--	125	7.7	7.5	11.0	12.5	9.7	89
DEC										
30...	1430	2000	--	122	7.6	7.7	7.5	9.0	11.8	99
JAN										
28...	1230	3000	--	97	7.3	7.6	4.0	8.0	11.8	90
FEB										
25...	1445	3400	--	52	--	7.2	9.0	11.5	10.5	93
APR										
01...	1445	2350	91	95	7.7	7.6	14.5	27.0	10.2	100
28...	0915	9100	70	--	7.0	7.1	16.0	21.0	8.1	84
MAY										
26...	1130	3200	72	72	7.4	7.4	17.5	23.0	8.4	89
JUN										
28...	0900	1000	140	139	7.6	7.6	22.5	24.5	7.6	90
JUL										
29...	1215	1700	110	116	7.7	7.7	26.0	30.5	7.2	88
AUG										
24...	0720	6100	120	111	7.5	7.5	24.0	22.0	7.5	91
SEP										
28...	0845	3620	130	133	7.6	7.7	20.0	17.5	8.1	91

DATE	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	ALKA-LINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT											
28...	11	1.0	90	52	6.0	46	4	.25	.030	.060	2.5
NOV											
24...	15	.8	150	48	4.0	44	26	.22	.020	.240	3.2
DEC											
30...	20	.6	--	46	5.0	41	48	.28	.080	.040	<1.0
JAN											
28...	34	.8	140	42	11	31	37	.38	.080	.060	3.0
FEB											
25...	33	.8	1400	26	3.0	23	23	.27	.070	.060	<1.0
APR											
01...	17	.7	130	34	.00	40	13	.39	.040	.040	1.0
28...	65	1.8	7000	30	10	20	69	.18	.060	.120	--
MAY											
26...	17	.5	270	42	13	29	34	.31	.030	.060	2.0
JUN											
28...	7	--	260	62	.00	62	9	.30	.030	.060	1.0
JUL											
29...	15	.5	1300	66	21	45	35	.17	<.020	.040	--
AUG											
24...	33	.8	490	48	5.0	43	64	.26	.040	.120	<1.0
SEP											
28...	14	1.1	330	54	1.0	53	39	.24	.020	.070	2.0

02397000 COOSA RIVER NEAR ROME, GA.

LOCATION.--Lat 34 12'01", long 85 15'24", Floyd County, Hydrologic Unit 03150105, on left bank attached to shoreward side of lock wall of Mayos Bar lock near upstream end, 1.5 mi (2.4 km) upstream from Webb Creek, 6 mi (9.7 km) southwest of Rome, 7.5 mi (12.1 km) downstream from confluence of Oostanaula and Etowah Rivers, and at mile 278.6 (448.3 km).

DRAINAGE AREA.--4,040 mi^2 (10,500 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1896 to December 1903 (published as "at Rome"), June 1928 to December 1931, March 1937 to December 1958, October 1962 to current year. Monthly discharge only for some periods, published in WSP 1304. Water years 1959-62 (annual maximum only). Gage-height records collected at same site 1922-49, are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 1906: 1959(M).

GAGE.--Water-stage recorder. Datum of gage is 553.05 ft (168.570 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Jan. 1, 1897, to Dec. 31, 1903, nonrecording gage at site 7.5 mi (12.1 km) upstream at datum 8.65 ft (2.64 m) higher. June 21, 1928, to Dec. 31, 1931, and Mar. 10, 1937, to Dec. 31, 1958, water-stage recorder at site 200 ft (61 m) downstream at same datum. Water-stage recorder at Fifth Avenue in Rome used as auxiliary gage since 1963.

REMARKS.--Records good. Flow regulated by Allatoona Reservoir since December 1949 and by Carters Lake and Carters re-regulation Reservoir since November 1974. (See "Lakes and Reservoirs in Mobile River Basin," stations 02381400, 02382400, and 02393500.)

AVERAGE DISCHARGE.--51 years (1896-1903, 1928-31, 1937-58, 1962-82), 6,750 ft^3/s (191.2 m^3/s), 22.69 in/yr (576 mm/yr) unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 65,000 ft^3/s (1,840 m^3/s) Jan. 22, 1947, gage height, 37.0 ft (11.28 m); minimum daily, 870 ft^3/s (24.6 m^3/s) Oct. 18-22, 1931.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1834, 40.3 ft (12.28 m) at site and datum at Rome, equivalent to about 43 ft (13.1 m) at present site, from gage-height relation, Apr. 1, 1886, discharge, 100,000 ft^3/s (2,830 m^3/s), from rating curve extended above 63,000 ft^3/s (1,780 m^3/s) on basis of peak flow at Gadsden, Ala.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 46,500 ft^3/s (1,320 m^3/s) Feb. 4, gage height, 31.57 ft (9.623 m); minimum daily, 1,120 ft^3/s (31.7 m^3/s) Oct. 19, Nov. 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2360	1450	6000	12500	6660	21800	5750	13100	5650	5200	2800	2770
2	2450	1410	7960	12200	10100	22600	5500	10500	5650	4850	2870	3010
3	3070	1550	7620	17300	31900	19700	4490	7910	5850	4290	3970	3470
4	1420	1520	6110	35200	44500	15700	3520	9680	6770	2670	3890	5000
5	1330	1510	4720	40800	38300	13700	4150	9420	6590	2270	4140	3530
6	2990	1530	2980	35300	31500	12700	5990	9190	3090	3660	2550	2690
7	1860	1620	2540	32200	30000	11400	6310	9200	2740	3640	2190	3810
8	1870	1440	3300	31800	30200	14100	7140	10300	4570	4450	2100	3690
9	1820	1390	3550	30900	29000	15600	9550	6760	4620	3820	2210	3510
10	1940	1540	2620	28900	27300	14600	8190	6230	4660	4020	4120	3770
11	1350	1790	2350	21300	25600	11600	5470	7300	3460	2340	3600	3740
12	1340	1790	2250	13600	24400	10100	4270	7040	2480	2300	5320	1840
13	1870	1780	1630	13000	21900	8930	5240	6970	2750	4860	6780	1920
14	1910	1770	1750	11800	17200	6320	10200	7190	2900	4470	7290	4250
15	1930	1220	3170	9720	14100	6340	11600	5820	4010	4120	3640	3870
16	1860	1120	4150	7640	15300	9460	11700	3380	3970	4090	2650	4010
17	1870	1880	4070	4870	23900	13100	11200	3200	3920	4280	5580	5280
18	1270	1940	3550	6480	26900	17800	11500	4430	4080	2890	6370	3660
19	1120	1960	3530	5510	25700	14000	11000	4760	4100	2960	6480	2900
20	1190	2020	2800	6500	23500	9870	14700	4510	2760	5040	5930	2080
21	1190	2070	1940	9040	18200	6810	14700	5110	2360	5080	5530	1630
22	1300	1230	3100	13800	14400	6300	13300	4440	3360	4730	2470	1530
23	1340	1170	3500	15400	11900	8090	11200	3420	3410	5390	2130	2950
24	1400	2220	4370	16100	10400	8250	9470	3760	3300	3370	4380	3010
25	1310	2350	5430	15600	10800	7920	9830	5550	3410	3250	4890	3060
26	1620	2400	8200	13000	10800	7660	28600	6560	3520	2670	5260	1600
27	2370	2440	8500	9900	18500	7270	30100	6570	2360	3240	3220	1530
28	3030	4100	6940	9190	23200	4650	26500	6220	2760	2840	4660	3110
29	3120	4690	5700	8860	---	4440	19600	5570	4230	2690	2470	3190
30	2410	3960	4850	7760	---	5330	16500	5630	4420	3060	2290	3170
31	1880	---	5670	5100	---	5910	---	4370	---	3150	2670	---
TOTAL	57790	58860	134850	501270	616160	342050	337270	204090	117750	115690	124450	93580
MEAN	1864	1962	4350	16170	22010	11030	11240	6584	3925	3732	4015	3119
MAX	3120	4690	8500	40800	44500	22600	30100	13100	6770	5390	7290	5280
MIN	1120	1120	1630	4870	6660	4440	3520	3200	2360	2270	2100	1530

CAL YR 1981 TOTAL 1426420 MEAN 3908 MAX 20200 MIN 1120 MEAN† 3885 CFSM† 0.96 IN† 13.05
WTR YR 1982 TOTAL 2703810 MEAN 7408 MAX 44500 MIN 1120 MEAN† 7528 CFSM† 1.86 IN† 25.29

† ADJUSTED FOR CHANGE IN CONTENTS IN CARTERS LAKE, CARTERS RE-REGULATION DAM, AND ALLATOONA RESERVOIR.

02397000 COOSA RIVER NEAR ROME, GA.—Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.08	11.55	13.68	16.23	13.95	20.40	13.58	16.65	13.52	13.34	12.32	12.25
2	12.13	11.51	14.45	16.08	15.30	20.72	13.47	15.43	13.52	13.20	12.35	12.35
3	12.43	11.64	14.32	18.14	26.06	19.57	13.01	14.43	13.61	12.97	12.83	12.55
4	11.52	11.61	13.73	28.00	31.07	17.81	12.65	15.12	13.98	12.26	12.80	13.20
5	11.43	11.61	13.15	30.10	29.72	16.93	12.91	15.02	13.90	12.08	12.90	12.58
6	12.35	11.62	12.40	28.73	26.85	16.28	13.68	14.93	12.45	12.66	12.21	12.20
7	11.82	11.70	12.20	27.09	25.43	15.76	13.81	14.94	12.29	12.68	12.04	12.69
8	11.82	11.54	12.62	26.53	25.30	16.84	14.14	15.35	13.08	13.02	11.94	12.64
9	11.79	11.49	12.65	26.07	24.87	17.59	15.08	13.99	13.10	12.76	12.05	12.56
10	11.86	11.63	12.24	24.81	23.77	17.10	14.54	13.78	13.12	12.85	12.89	12.66
11	11.45	11.79	12.13	20.69	22.55	15.88	13.46	14.20	12.61	12.11	12.67	12.65
12	11.44	11.79	12.07	16.89	21.83	15.29	12.95	14.09	12.18	12.10	13.39	11.77
13	11.80	11.75	11.70	16.41	20.66	14.83	13.37	14.07	12.30	13.20	13.98	11.82
14	11.84	11.75	11.80	15.96	18.59	13.82	15.34	14.14	12.37	13.05	14.18	12.86
15	11.86	11.32	12.48	15.13	17.07	13.82	15.87	13.60	12.85	12.89	12.65	12.70
16	11.82	11.22	12.91	14.33	17.59	15.04	15.92	12.59	12.83	12.88	12.21	12.76
17	11.81	11.84	12.88	13.21	21.54	16.44	15.70	12.51	12.81	12.96	13.46	13.29
18	11.37	11.88	12.66	13.87	23.10	18.65	15.80	13.03	12.88	12.36	13.78	12.62
19	11.21	11.90	12.65	13.48	22.56	16.93	15.63	13.17	12.89	12.39	13.82	12.28
20	11.29	11.93	12.32	13.88	21.48	15.19	17.33	13.06	12.30	13.28	13.59	11.89
21	11.29	11.96	11.92	14.87	19.10	14.01	17.42	13.31	12.12	13.29	13.42	11.62
22	11.40	11.33	12.44	16.72	17.19	13.81	16.63	13.03	12.56	13.15	12.12	11.53
23	11.44	11.28	12.63	17.37	15.99	14.50	15.70	12.60	12.59	13.42	11.96	12.27
24	11.50	12.04	13.01	17.68	15.40	14.57	15.04	12.75	12.55	12.58	12.94	12.30
25	11.41	12.08	13.44	17.26	15.57	14.44	15.21	13.50	12.61	12.53	13.16	12.32
26	11.70	12.11	14.54	16.39	15.55	14.34	24.00	13.91	12.63	12.26	13.31	11.58
27	12.12	12.15	14.66	15.21	18.78	14.18	25.47	13.91	12.12	12.52	12.44	11.52
28	12.43	12.88	14.06	14.94	20.93	13.12	23.47	13.77	12.30	12.34	13.06	12.34
29	12.47	13.14	13.56	14.81	---	13.03	19.75	13.50	12.94	12.21	12.11	12.39
30	12.14	12.83	13.19	14.37	---	13.41	18.23	13.52	13.02	12.44	11.99	12.37
31	11.88	---	13.53	13.31	---	13.65	---	13.00	---	12.48	12.20	---
MEAN	11.77	11.83	12.97	18.34	20.99	15.74	15.97	13.90	12.80	12.72	12.80	12.35
MAX	12.47	13.14	14.66	30.10	31.07	20.72	25.47	16.65	13.98	13.42	14.18	13.29
MIN	11.21	11.22	11.70	13.21	13.95	13.03	12.65	12.51	12.12	12.08	11.94	11.52

WTR YR 1982 MEAN 14.31 MAX 31.07 MIN 11.21

02397000 COOSA RIVER NEAR ROME, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1968 to current year.
REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE (DEG C)	TEMPERATURE, AIR (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT										
28...	1545	3100	174	176	7.6	7.4	14.5	25.5	7.6	--
NOV										
24...	1515	2640	--	170	7.7	7.6	10.0	11.5	9.6	86
DEC										
30...	1600	5240	--	98	7.4	7.5	7.0	7.0	11.4	94
JAN										
28...	1430	9400	--	91	7.3	7.4	4.0	8.0	11.5	88
FEB										
25...	1600	9150	74	64	--	7.3	9.5	11.0	10.0	88
APR										
01...	1630	5600	106	109	7.6	7.6	14.5	24.5	9.3	92
28...	1330	26400	75	--	7.0	7.0	16.0	27.0	8.2	85
MAY										
26...	1500	6060	90	91	7.3	7.4	20.0	21.5	8.3	93
JUN										
28...	1240	2820	120	125	7.5	7.4	24.0	26.0	6.6	80
JUL										
29...	1530	3150	122	120	7.6	7.6	27.0	30.5	6.8	86
AUG										
24...	1100	6210	--	146	7.5	7.7	25.0	25.5	7.7	95
SEP										
28...	1200	4170	140	142	7.7	7.8	20.0	22.0	7.8	88

DATE	TURBIDITY (JTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	HARDNESS (MG/L AS CACO3)	HARDNESS NONCARBONATE (MG/L AS CACO3)	ALKALINITY LAB (MG/L AS CACO3)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT										
28...	13	1.0	840	66	5.0	61	.29	.120	.500	6.0
NOV										
24...	9	.9	1600	66	10	56	.26	.100	.060	6.2
DEC										
30...	16	.9	750	38	2.0	36	.28	.140	.080	2.0
JAN										
28...	26	.5	700	42	12	30	.36	.250	.100	3.0
FEB										
25...	26	.6	2300	32	6.0	26	.31	.080	.100	2.0
APR										
01...	10	1.1	790	40	.00	43	.46	.030	.100	1.0
28...	41	2.0	4600	60	38	22	.16	.080	.140	--
MAY										
26...	21	.5	330	40	8.0	32	.40	.060	.120	2.0
JUN										
28...	8	--	3300	48	.00	50	.26	.080	.180	1.0
JUL										
29...	10	.6	490	74	27	47	.26	.030	.140	--
AUG										
24...	20	.9	790	62	7.0	55	.30	.060	.100	<1.0
SEP										
28...	8	.6	790	58	.00	58	.26	.020	.090	2.0

02397410 CEDAR CREEK AT CEDARTOWN, GA.

LOCATION.--Lat 33°59'45", long 85°15'53", Polk County, Hydrologic Unit 03150105, at bridge on Georgia Avenue at Cedartown, 1.1 mi (1.8 km) downstream from Pumpkin Pile Creek, and at mile 29.9 (48.1 km).

DRAINAGE AREA.--66.9 mi^2 (173 km^2).

PERIOD OF RECORD.--May 1981 to current year.

GAGE.--Water-stage recorder. Datum of gage is 758.91 ft (231.316 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,080 ft^3/s (144 m^3/s) Feb. 3, 1982, gage height, 16.43 ft (5.008 m); minimum daily discharge, 13 ft^3/s (0.37 m^3/s) Sept. 25-28, Oct. 5, 6, 1981.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 4, 1979, reached a stage of 21.1 ft (6.431 m) from floodmarks, discharge, 16,500 ft^3/s (467 m^3/s) from rating curve extended above 4,500 ft^3/s (127 m^3/s) on basis of contracted-opening and flow-over-road computation of peak flow.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,500 ft^3/s (42.5 m^3/s) and maximum (*):

		Discharge		Gage height				Discharge		Gage height	
Date	Time	(ft^3/s)	(m^3/s)	(ft)	(m)	Date	Time	(ft^3/s)	(m^3/s)	(ft)	(m)
Jan. 4	0700	1660	47.0	10.37	3.161	Apr. 26	0015	4230	120	15.46	4.712
Feb. 3	0800	*5080	144	16.43	5.008						

Minimum daily discharge, 13 ft^3/s (0.37 m^3/s) Oct. 5, 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	16	77	188	112	161	63	178	99	68	67	24
2	14	16	62	113	686	136	63	149	68	60	51	24
3	14	15	54	803	3200	122	71	129	63	55	40	22
4	14	15	49	1060	583	113	65	115	68	49	35	22
5	13	16	47	334	391	106	311	106	68	44	33	21
6	13	16	50	214	303	113	197	100	60	37	32	21
7	15	15	50	163	218	361	123	115	55	35	31	21
8	14	15	50	124	193	197	233	488	53	34	34	20
9	14	15	46	112	319	148	263	152	50	33	36	20
10	24	15	47	100	248	127	156	114	46	32	30	20
11	21	15	47	95	190	114	125	97	43	32	29	20
12	17	15	46	85	156	105	108	86	43	31	28	20
13	17	15	43	100	137	99	99	79	55	29	28	21
14	16	15	57	97	121	94	98	74	48	28	28	21
15	16	16	60	92	125	93	113	70	44	29	28	20
16	15	16	59	86	270	97	146	65	40	40	27	20
17	15	16	57	83	355	88	342	62	44	50	30	20
18	24	15	56	82	233	83	295	60	43	65	29	19
19	25	16	54	90	178	79	239	58	38	46	26	19
20	19	16	51	96	147	77	531	107	34	35	25	19
21	17	16	52	120	132	75	303	89	32	32	24	19
22	17	17	56	110	116	82	195	74	46	29	24	19
23	28	17	59	160	107	75	150	74	47	54	23	19
24	22	20	61	150	102	73	129	67	37	80	23	19
25	19	19	96	130	98	73	1390	72	31	70	23	19
26	31	18	81	115	99	71	1750	69	30	50	22	19
27	25	19	71	105	283	68	776	62	55	43	22	22
28	19	20	67	90	217	66	402	59	73	33	23	19
29	18	19	64	84	---	65	286	56	116	35	23	19
30	17	37	61	81	---	65	224	56	79	83	22	19
31	17	---	358	109	---	65	---	68	---	68	22	---
TOTAL	564	511	2088	5371	9319	3291	9246	3150	1608	1409	918	607
MEAN	18.2	17.0	67.4	173	333	106	308	102	53.6	45.5	29.6	20.2
MAX	31	37	358	1060	3200	361	1750	488	116	83	67	24
MIN	13	15	43	81	98	65	63	56	30	28	22	19
CFSM	.27	.25	1.01	2.59	4.98	1.58	4.60	1.53	.80	.68	.44	.30
IN.	.31	.28	1.16	2.99	5.18	1.83	5.14	1.75	.89	.78	.51	.34

WTR YR 1982 TOTAL 38082 MEAN 104 MAX 3200 MIN 13 CFSM 1.56 IN 21.18

02397500 CEDAR CREEK NEAR CEDARTOWN, GA.

LOCATION.--Lat 34°03'38", long 85°18'41", Polk County, Hydrologic Unit 03150105, at bridge on State Highway 161, 4.5 mi (7.2 km) upstream from Lake Creek, and 4.5 mi (7.2 km) northwest of Cedartown.

DRAINAGE AREA.--115 mi^2 (298 km^2), revised.

PERIOD OF RECORD.--February 1968 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey. Water-discharge records for the water years 1943-73 are published in reports of the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE (DEG C)	TEMPERATURE, AIR (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT 28...	1645	50	259	262	7.8	7.8	15.0	17.5	7.7	--
NOV 24...	1615	48	--	300	7.9	7.7	11.0	7.5	8.4	77
DEC 30...	1715	71	240	255	7.9	7.9	9.5	7.5	10.2	90
JAN 28...	1540	132	--	205	7.6	7.8	7.5	8.0	9.6	80
FEB 25...	1700	165	--	165	--	7.8	13.5	9.5	8.7	85
APR 01...	1730	108	235	238	8.8	8.6	19.0	25.5	13.1	142
28...	1245	800	94	--	7.4	7.3	15.5	27.0	9.3	96
MAY 26...	1645	140	197	190	7.7	7.8	20.0	26.0	8.7	98
JUN 28...	1200	90	225	227	7.7	7.6	21.0	26.5	7.4	85
JUL 29...	1630	61	244	240	8.2	8.2	24.5	31.0	9.7	116
AUG 24...	1000	57	280	266	7.4	7.6	21.0	24.0	4.1	47
SEP 28...	1115	59	260	271	7.5	7.6	17.0	26.0	4.2	44

DATE	TURBIDITY (JTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	HARDNESS (MG/L AS CACO3)	HARDNESS NONCARBONATE (MG/L AS CACO3)	ALKALINITY LAB (MG/L AS CACO3)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 28...	4	1.0	<30	124	4.0	120	.47	.050	.340	7.0
NOV 24...	3	1.2	40	126	.00	134	.22	.040	.200	15
DEC 30...	1	.8	<30	112	.00	112	.88	.080	.240	<1.0
JAN 28...	14	.7	330	134	43	91	.54	.040	.100	2.0
FEB 25...	5	1.4	7900	104	12	92	.46	.020	.080	<1.0
APR 01...	2	1.1	50	112	.00	118	.48	.040	.180	3.0
28...	13	.9	14000	41	1.0	40	.24	.060	.060	--
MAY 26...	11	.6	4100	104	15	89	.45	.070	.100	3.0
JUN 28...	8	--	7000	110	5.0	105	.47	.090	.160	2.5
JUL 29...	3	.5	23000	124	7.0	117	.43	<.020	.140	--
AUG 24...	2	.8	330	126	4.0	122	.66	.080	.370	<1.0
SEP 28...	4	1.0	1700	114	.00	122	.55	.030	.370	5.0

02397530 COOSA RIVER NEAR COOSA, GA.

LOCATION.--Lat 34°11'54", long 85°26'46", Floyd County, Ga.-Cherokee County, Ala., Hydrologic Unit 03150105, 6.5 mi (10.5 km) southwest of Coosa, and at mile 254.8 (410.0 km).

DRAINAGE AREA.--4,360 mi^2 (11,300 km^2), approximately.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: August 1976 to current year.
pH: August 1976 to current year.
WATER TEMPERATURE: August 1976 to current year.
DISSOLVED OXYGEN: August 1976 to current year.

PERIOD OF RECORD.--August 1974 to current year.

REMARKS.--Flow regulated by Allatoona Reservoir and by Carters Lake and re-regulation dam. (See "Lakes and Reservoirs in Mobile River Basin," stations 02381400, 02382400, and 02393500). Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Air Temperature, Water Temperature, pH, Dissolved Oxygen, and Specific Conductance by U.S. Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 253 micromhos Sept. 15, 1977; minimum, 32 micromhos Apr. 15, 1979.
pH: Maximum, 9.7 units Dec. 5, 1977; minimum, 6.3 units Nov. 6-12, 1977.
WATER TEMPERATURE: Maximum recorded, 34.0°C July 15, 1977, July 24, 1981; minimum, 1.0°C Jan. 13, 1982.
DISSOLVED OXYGEN: Maximum, 14.4 mg/L Jan. 20, 1977; minimum recorded, 1.4 mg/L July 8, 1977.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 215 micromhos Oct. 28; minimum, 48 micromhos Jan. 5.
pH: Maximum, 8.7 units June 21; minimum, 6.6 units Jan. 4-6, Feb. 4-7.
WATER TEMPERATURE: Maximum, 32.0°C July 7, 28; minimum, 1.0°C Jan. 13.
DISSOLVED OXYGEN: Maximum, 11.7 mg/L Jan. 13; minimum, 3.6 mg/L Aug. 4.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	TEMPER-ATURE, AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT									
22...	1020	152	154	7.3	7.4	20.5	17.0	5.7	64
NOV									
19...	1030	180	185	7.2	7.6	16.5	11.0	7.3	77
DEC									
21...	1130	153	146	7.3	7.4	6.5	.0	10.6	88
JAN									
26...	1100	97	106	6.9	7.4	7.5	-1.5	10.2	86
FEB									
22...	1200	81	79	6.9	7.1	10.5	11.5	9.9	91
MAR									
10...	1130	87	80	7.1	7.3	9.5	12.0	10.4	92
APR									
01...	1420	126	127	7.3	7.5	16.0	24.0	9.6	99
MAY									
12...	1020	123	122	7.2	7.5	20.5	19.5	7.7	87
JUN									
08...	1315	113	109	7.1	7.2	24.5	26.0	5.7	70
JUL									
13...	1300	134	129	7.0	7.6	27.0	32.0	5.4	69
AUG									
10...	1150	139	136	7.3	7.8	28.5	26.0	6.1	80
SEP									
14...	1050	131	123	7.2	7.4	26.0	24.0	4.8	60

02397530 COOSA RIVER NEAR COOSA, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TUR-BID-ITY (JTU)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	ALKA-LINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)
OCT									
22...	5	7	1.0	40	--	--	50	5	112
NOV									
19...	9	12	.8	<30	54	.00	57	7	124
DEC									
21...	10	0	1.8	2300	54	3.0	51	9	120
JAN									
26...	88	11	.5	790	42	9.0	33	50	128
FEB									
22...	32	7	.8	1700	36	9.0	27	26	104
MAR									
10...	30	7	.9	2300	36	10	26	35	116
APR									
01...	9	9	.9	220	44	.00	48	10	104
MAY									
12...	9	12	.4	700	54	11	43	--	--
JUN									
08...	13	17	.8	110	--	--	39	21	108
JUL									
13...	8	8	.7	20	48	1.0	47	15	172
AUG									
10...	7	11	1.5	<20	68	11	57	5	124
SEP									
14...	8	13	.7	80	42	.00	45	12	116

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT					
22...	.20	.080	.50	.160	4.0
NOV					
19...	.32	.160	.40	.170	3.5
DEC					
21...	.26	.130	.90	.160	1.0
JAN					
26...	.31	.060	.40	.110	11
FEB					
22...	.30	.070	.50	.080	1.0
MAR					
10...	.33	.090	.40	.060	6.0
APR					
01...	.41	.060	.50	.080	4.0
MAY					
12...	.34	.050	.28	.080	5.0
JUN					
08...	.41	.110	.20	.140	4.0
JUL					
13...	.28	.090	.24	.080	<1.0
AUG					
10...	.30	.020	.30	.140	--
SEP					
14...	.24	.080	.20	.100	1.5

02397530 COOSA RIVER NEAR COOSA, GA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	162	140	182	168	146	131	128	100	132	109	82	73
2	162	113	186	175	136	127	96	89	143	133	94	71
3	157	114	182	178	127	117	92	80	129	51	82	71
4	144	134	184	179	120	117	79	51	52	49	88	73
5	141	115	184	180	121	113	52	48	57	50	90	74
6	147	116	182	179	126	121	56	51	65	56	91	75
7	157	150	186	180	140	126	60	53	69	64	97	79
8	154	122	189	186	143	135	68	58	75	69	111	94
9	159	116	188	178	151	137	67	62	79	72	105	85
10	174	149	178	173	162	153	74	67	79	74	90	82
11	148	132	185	175	158	145	83	73	78	74	103	81
12	148	135	189	180	141	129	92	79	76	73	106	90
13	158	151	189	185	141	138	90	72	76	74	106	91
14	175	159	188	182	157	141	90	71	78	76	109	96
15	172	159	189	174	177	157	98	78	85	77	120	109
16	171	161	176	169	182	171	100	85	86	83	145	121
17	185	162	177	168	170	161	107	94	88	80	138	103
18	184	168	189	172	164	150	139	108	78	74	113	82
19	176	160	194	171	160	148	139	108	77	74	97	82
20	163	151	186	178	157	149	137	116	76	74	103	93
21	160	149	186	153	154	150	139	113	79	76	108	96
22	157	149	166	145	164	153	123	100	83	79	120	107
23	156	148	162	147	159	144	103	95	85	83	138	121
24	177	157	167	150	171	137	98	80	98	83	141	100
25	180	171	177	160	146	116	95	82	104	81	113	95
26	187	179	184	177	151	129	102	92	98	80	114	100
27	214	188	183	166	127	117	105	99	99	80	117	101
28	215	200	163	138	117	109	106	97	79	72	116	103
29	189	184	157	130	119	110	105	97	---	---	116	105
30	186	182	159	135	139	118	105	95	---	---	142	119
31	189	180	---	---	138	121	114	99	---	---	151	139
MONTH	215	113	194	130	182	109	139	48	143	49	151	71

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	141	122	83	78	119	98	170	136	160	146	127	119
2	124	106	97	82	129	117	141	131	165	146	140	126
3	121	113	99	81	123	96	140	125	155	148	180	137
4	124	113	121	100	122	97	135	127	152	144	184	151
5	144	115	105	84	98	87	139	133	161	145	148	135
6	152	137	103	83	112	97	145	133	146	141	143	132
7	150	141	102	83	112	96	144	141	140	126	149	141
8	137	115	106	83	132	101	177	142	131	124	146	135
9	115	99	97	87	151	130	152	129	136	131	168	130
10	106	90	125	98	163	119	134	120	145	133	167	121
11	103	93	131	119	131	118	123	114	163	145	128	118
12	113	103	125	105	124	118	125	122	174	126	126	117
13	129	114	115	102	129	116	139	121	138	119	127	116
14	145	114	112	101	137	123	157	132	127	100	142	117
15	116	83	105	89	152	136	170	125	112	101	150	134
16	102	88	116	92	164	149	125	114	112	97	165	125
17	103	83	128	111	167	155	122	113	117	100	137	115
18	97	85	135	112	156	132	125	121	152	110	132	113
19	107	90	156	138	141	125	122	119	117	95	121	112
20	108	86	166	135	135	128	138	119	106	95	126	114
21	98	81	141	133	132	126	154	121	110	99	138	126
22	92	82	142	133	141	131	156	110	111	101	132	107
23	98	80	142	128	147	140	123	105	112	102	126	108
24	100	83	146	131	168	143	122	114	118	104	160	129
25	104	86	150	140	174	150	118	111	144	120	167	160
26	103	60	151	127	151	139	117	105	168	104	183	170
27	68	62	123	110	149	129	128	110	116	100	181	157
28	78	65	112	103	154	142	140	129	114	106	155	120
29	87	79	111	99	153	145	151	134	137	109	149	134
30	85	78	111	100	156	146	158	147	145	126	159	147
31	---	---	113	105	---	---	156	133	145	122	---	---
MONTH	152	60	166	78	174	87	177	105	174	95	184	107
YEAR	215	48										

02397530 COOSA RIVER NEAR COOSA, GA.--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	7.0	6.7	7.4	7.3	7.1	7.0	7.3	7.0	7.0	7.0	7.0	6.9
2	7.1	6.8	7.3	7.2	7.2	7.1	7.0	7.0	7.2	7.0	7.1	7.0
3	6.9	6.8	7.3	7.2	7.1	7.0	7.0	6.9	7.1	6.7	7.1	7.0
4	7.0	6.8	7.3	7.2	7.0	6.9	6.9	6.6	6.6	6.6	7.1	6.9
5	7.4	6.8	7.2	7.2	7.1	7.0	6.6	6.6	6.6	6.6	7.2	7.0
6	7.0	6.8	7.2	7.2	7.1	7.0	6.7	6.6	6.6	6.6	7.1	7.0
7	6.9	6.9	7.3	7.3	7.1	7.1	6.8	6.7	6.7	6.6	7.1	7.0
8	7.0	6.8	7.4	7.3	7.2	7.1	6.9	6.8	6.8	6.7	7.1	7.0
9	6.9	6.7	7.3	7.3	7.2	7.1	6.9	6.8	6.7	6.7	7.2	7.1
10	7.0	6.9	7.2	7.2	7.3	7.2	6.9	6.8	6.7	6.7	7.1	7.0
11	7.0	6.9	7.3	7.3	7.3	7.2	6.9	6.8	6.9	6.7	7.1	7.0
12	7.0	6.9	7.3	7.2	7.3	7.2	7.0	6.8	7.0	6.9	7.1	7.0
13	7.1	7.0	7.2	7.2	7.3	7.2	7.1	7.0	6.9	6.8	7.1	7.0
14	7.2	7.1	7.4	7.3	7.3	7.2	7.1	7.0	6.9	6.8	7.1	7.0
15	7.1	7.1	7.4	7.3	7.3	7.2	7.1	7.0	7.0	6.9	7.1	7.0
16	7.2	7.1	7.3	7.3	7.3	7.2	7.0	7.0	7.0	7.0	7.2	7.1
17	7.3	7.1	7.3	7.3	7.3	7.3	7.1	6.9	7.0	7.0	7.2	7.1
18	7.2	7.2	7.2	7.2	7.3	7.3	7.2	6.9	7.0	6.9	7.1	7.0
19	7.2	7.2	7.3	7.2	7.3	7.3	7.2	7.0	7.0	6.9	7.1	7.0
20	7.3	7.2	7.4	7.2	7.3	7.3	7.1	7.1	7.0	6.9	7.1	7.0
21	7.4	7.1	7.4	7.3	7.3	7.3	7.1	7.0	6.9	6.9	7.1	7.0
22	7.2	7.0	7.3	7.3	7.4	7.3	7.0	6.9	6.9	6.8	7.1	7.0
23	7.2	7.1	7.3	7.2	7.3	7.3	6.9	6.8	7.0	6.9	7.2	7.0
24	7.2	7.1	7.3	7.2	7.4	7.2	6.9	6.8	7.1	7.0	7.3	7.1
25	7.3	7.1	7.3	7.2	7.3	7.2	6.9	6.8	7.1	7.0	7.2	7.1
26	7.4	7.3	7.3	7.2	7.3	7.2	7.0	6.8	7.1	7.0	7.2	7.1
27	7.3	7.3	7.4	7.3	7.2	7.2	7.0	6.9	7.1	7.0	7.2	7.1
28	7.4	7.3	7.3	7.2	7.2	7.2	7.0	7.0	7.0	6.9	7.3	7.1
29	7.4	7.3	7.3	7.2	7.2	7.2	7.0	7.0	---	---	7.2	7.2
30	7.4	7.3	7.3	7.2	7.3	7.2	7.1	7.0	---	---	7.3	7.2
31	7.4	7.3	---	---	7.3	7.2	7.1	7.0	---	---	7.4	7.3
MONTH	7.4	6.7	7.4	7.2	7.4	6.9	7.3	6.6	7.2	6.6	7.4	6.9

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	7.4	7.3	6.9	6.9	7.1	6.9	7.0	6.9	7.5	7.2	7.2	7.0
2	7.4	7.3	7.0	6.8	7.1	7.0	7.0	6.9	7.5	7.2	7.5	7.0
3	7.4	7.3	7.0	6.9	7.1	7.0	7.1	7.0	7.4	7.2	7.4	7.2
4	7.4	7.3	7.2	6.9	7.2	7.0	7.2	7.0	7.3	7.1	7.3	7.2
5	7.4	7.3	7.2	7.0	7.1	7.0	7.5	7.0	7.3	7.2	7.3	7.2
6	7.4	7.3	7.1	7.0	7.9	7.1	7.7	7.1	7.4	7.2	7.5	7.2
7	7.4	7.3	7.1	7.0	7.9	7.2	7.7	7.0	7.4	7.3	7.2	7.1
8	7.4	7.3	7.1	7.0	7.6	6.9	7.3	7.1	7.7	7.2	7.2	7.1
9	7.3	7.3	7.1	7.0	7.2	7.0	7.4	7.0	7.5	7.1	7.3	7.1
10	7.3	7.2	7.1	7.0	7.2	7.0	7.2	7.0	7.6	7.2	7.3	7.2
11	7.3	7.2	7.1	7.0	7.4	7.0	7.1	6.9	7.4	7.2	7.2	7.2
12	7.3	7.2	7.2	7.1	7.4	7.0	8.1	7.0	7.3	7.1	7.2	7.1
13	7.3	7.3	7.2	7.1	7.6	7.0	7.5	7.0	7.1	7.0	7.3	7.1
14	7.5	7.4	7.1	7.1	7.8	7.0	7.2	6.9	7.1	6.9	7.4	7.1
15	7.4	7.1	7.1	7.0	7.4	7.0	7.3	7.1	7.4	6.9	7.3	7.2
16	7.2	7.1	7.5	7.0	7.1	7.1	7.2	7.0	7.2	7.0	7.4	7.2
17	7.2	7.1	7.7	7.1	7.3	7.1	7.1	7.0	7.0	6.9	7.2	7.2
18	7.1	7.1	7.2	7.1	7.3	7.1	7.3	7.0	7.2	7.0	7.5	7.2
19	7.1	7.1	7.2	7.1	7.2	7.1	7.7	7.1	7.1	6.9	7.5	7.2
20	7.2	7.1	7.3	7.1	7.3	7.1	7.2	7.1	7.0	6.9	8.0	7.2
21	7.2	7.1	7.2	7.1	8.7	7.0	7.2	7.1	7.0	6.9	7.3	7.1
22	7.2	7.1	7.3	7.1	8.0	7.0	7.3	7.1	7.2	7.0	7.2	7.1
23	7.2	7.1	7.6	7.1	7.0	6.9	7.2	7.1	8.6	7.1	7.2	7.1
24	7.3	7.1	7.2	6.9	7.3	7.0	7.5	7.2	7.5	7.0	7.3	7.1
25	7.3	7.1	7.1	7.0	7.3	7.1	7.4	7.2	7.2	7.0	7.5	7.2
26	7.2	7.0	7.2	7.1	7.2	7.0	8.1	7.1	7.3	7.0	7.6	7.4
27	6.9	6.8	7.1	7.0	7.2	7.0	7.9	7.3	7.2	7.0	7.8	7.5
28	6.8	6.8	7.1	7.0	7.2	7.0	7.5	7.1	7.0	6.9	7.6	7.3
29	6.9	6.8	7.1	7.0	7.0	6.9	7.7	7.2	7.2	6.9	7.3	7.2
30	7.0	6.9	7.1	7.0	7.0	6.8	7.3	7.2	7.3	7.1	7.3	7.2
31	---	---	7.3	7.0	---	---	7.2	7.2	7.8	7.1	---	---
MONTH	7.5	6.8	7.7	6.8	8.7	6.8	8.1	6.9	8.6	6.9	8.0	7.0
YEAR	8.7	6.6										

02397530 COOSA RIVER NEAR COOSA, GA.—Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	25.0	23.5	19.5	17.5	13.5	12.5	7.5	6.5	10.5	8.0	8.0	6.5
2	24.5	23.5	20.5	18.5	12.5	10.5	8.5	6.0	11.5	10.5	9.5	7.0
3	25.5	23.5	21.0	18.5	11.0	10.0	9.0	7.5	10.5	8.0	10.0	8.5
4	26.0	23.5	22.0	19.0	11.0	10.0	10.0	9.0	8.5	8.0	11.5	9.5
5	25.5	23.0	22.5	20.5	12.0	10.0	10.0	9.0	8.5	8.0	12.5	10.5
6	24.0	22.5	22.0	20.5	11.5	10.5	9.0	9.0	8.5	7.5	12.0	11.0
7	24.0	22.5	22.0	20.0	12.0	10.0	10.0	9.0	8.5	7.0	12.0	10.5
8	24.5	21.5	23.0	20.0	13.0	11.0	9.5	9.0	7.0	6.5	11.5	10.0
9	22.0	21.5	22.0	20.0	12.0	10.0	8.5	7.0	8.0	6.5	11.0	9.0
10	22.5	22.0	20.5	19.0	11.0	9.5	6.5	4.5	8.5	6.5	10.5	8.5
11	23.5	22.0	19.5	18.5	12.0	10.0	4.5	2.5	8.5	7.5	11.5	9.5
12	23.5	22.0	20.5	18.0	12.5	10.0	2.5	2.0	8.0	7.0	13.0	10.5
13	22.5	21.5	19.0	17.0	12.0	11.0	3.5	1.0	8.0	7.0	13.5	12.0
14	22.5	21.0	18.0	16.0	10.5	9.0	4.0	3.5	8.0	6.5	13.5	13.0
15	23.0	21.5	17.5	15.5	9.5	9.0	4.5	3.5	8.0	7.0	14.0	13.0
16	23.0	21.0	17.5	16.0	10.0	8.5	3.5	3.5	8.5	7.5	14.5	14.0
17	24.5	21.5	17.5	15.5	9.0	8.0	4.0	2.5	11.0	8.5	14.5	13.0
18	22.5	21.0	17.0	15.0	8.0	6.5	4.0	3.0	12.0	10.5	14.5	12.5
19	22.0	20.0	17.0	15.0	8.0	6.0	4.5	3.5	12.0	10.5	16.0	13.5
20	22.5	19.0	14.5	13.5	8.0	6.0	6.0	4.0	12.5	10.5	16.5	15.0
21	22.5	20.0	15.0	13.5	7.0	5.5	8.0	6.0	11.0	10.0	16.5	15.5
22	22.0	20.0	15.5	13.5	8.0	5.5	9.0	8.0	10.5	10.0	17.0	16.0
23	22.0	20.5	14.5	13.5	9.0	6.0	10.5	9.0	10.5	9.0	17.5	16.0
24	21.5	20.0	14.5	13.5	6.5	5.5	10.0	8.5	12.0	9.5	16.5	14.5
25	20.0	18.0	16.0	14.0	8.0	7.0	9.5	8.0	12.0	10.5	14.5	14.0
26	18.5	18.0	14.5	12.0	8.0	7.0	8.0	7.0	11.0	8.5	14.0	13.0
27	19.0	17.5	13.5	13.0	9.0	7.5	7.5	6.0	8.5	6.5	13.5	12.5
28	19.0	15.5	14.0	13.5	8.0	7.5	6.0	5.5	6.5	6.0	13.5	11.5
29	19.0	15.5	14.5	13.5	9.5	8.0	6.5	5.0	---	---	12.5	11.5
30	19.0	16.5	14.0	13.0	9.0	7.5	7.5	6.0	---	---	14.0	12.0
31	19.0	17.0	---	---	8.5	7.5	9.5	7.5	---	---	15.0	13.0
MONTH	26.0	15.5	23.0	12.0	13.5	5.5	10.5	1.0	12.5	6.0	17.5	6.5

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	16.0	13.5	17.0	15.0	25.0	24.0	28.0	26.5	31.0	29.5	29.5	27.5
2	16.0	14.5	17.5	16.0	26.5	24.5	28.0	26.0	30.0	29.0	30.0	28.0
3	17.0	15.5	18.0	16.5	25.5	23.5	27.5	26.0	30.5	28.0	29.5	27.5
4	16.5	15.5	19.0	17.5	24.5	22.5	29.0	26.0	30.0	28.0	28.5	27.0
5	15.5	15.0	19.0	17.0	22.0	21.0	31.0	28.0	28.5	28.0	28.5	26.5
6	16.0	14.5	19.0	17.5	25.0	21.5	31.0	28.5	31.5	28.0	29.0	26.0
7	15.0	14.0	18.5	17.5	27.0	22.5	32.0	28.5	29.5	28.0	27.5	25.5
8	14.0	12.0	18.0	17.0	26.0	23.5	30.5	29.0	29.5	28.0	27.0	25.0
9	12.5	11.5	18.0	16.5	26.5	25.5	30.5	29.0	30.0	28.0	26.0	24.5
10	12.5	11.0	19.5	17.5	26.5	25.5	30.0	28.0	29.5	28.5	26.0	25.0
11	14.0	11.5	20.5	18.5	29.5	25.5	29.0	27.5	29.5	27.5	26.0	25.0
12	15.5	12.5	21.0	19.5	27.5	26.0	30.5	27.0	28.5	27.0	26.0	25.0
13	15.0	14.0	21.0	19.5	28.5	25.5	29.5	27.0	28.5	26.5	27.0	25.5
14	16.0	15.0	21.0	19.5	30.0	26.5	29.0	28.0	27.0	26.0	28.0	25.0
15	16.0	14.5	21.0	20.0	30.0	27.0	29.5	28.0	28.5	25.5	28.5	26.0
16	17.5	16.0	24.5	19.5	27.5	26.0	28.5	27.5	27.0	26.0	27.5	26.0
17	17.0	16.0	24.5	21.0	27.0	26.0	29.0	27.5	27.5	26.0	28.5	26.5
18	17.5	15.5	23.0	21.0	28.0	26.0	30.0	27.5	27.5	26.0	29.5	28.0
19	16.5	16.5	24.5	22.5	27.5	25.0	30.0	28.5	26.5	25.5	29.0	27.0
20	16.5	15.0	24.5	23.5	28.0	25.5	29.5	27.5	27.0	26.0	28.0	26.5
21	16.0	15.0	24.5	23.0	29.0	26.0	29.0	27.5	27.0	26.0	27.5	25.5
22	16.0	15.0	24.0	22.5	28.5	26.5	28.5	27.5	29.0	26.5	26.5	25.0
23	16.0	14.0	24.0	22.0	30.5	27.0	28.0	26.5	30.5	27.0	26.5	25.0
24	16.0	14.0	26.0	22.0	29.5	27.0	29.5	27.0	29.0	27.5	25.5	23.5
25	15.5	14.5	24.5	23.0	29.5	26.5	29.5	26.5	29.0	27.5	23.5	21.5
26	15.5	14.5	24.0	22.0	27.5	26.0	31.0	27.0	29.0	27.5	23.0	21.0
27	16.0	14.5	23.0	21.5	28.0	25.0	31.5	28.5	29.0	28.0	23.5	21.0
28	16.0	14.5	22.5	21.5	28.5	25.5	32.0	29.0	29.5	27.5	23.5	20.5
29	16.0	15.5	23.5	21.5	27.5	26.0	31.5	30.0	30.0	28.0	25.0	21.5
30	16.0	15.0	24.5	22.5	28.0	26.5	30.5	29.5	28.5	27.0	23.5	22.5
31	---	---	27.5	23.5	---	---	30.5	29.5	29.5	27.0	---	---
MONTH	17.5	11.0	27.5	15.0	30.5	21.0	32.0	26.0	31.5	25.5	30.0	20.5
YEAR	32.0	1.0										

02397530 COOSA RIVER NEAR COOSA, GA.--Continued

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	6.4	5.7	6.8	6.3	8.2	7.5	9.4	8.6	10.9	10.0	10.8	10.7
2	6.4	6.0	6.2	5.8	8.9	8.2	8.7	8.3	10.1	9.9	10.7	10.5
3	6.1	5.6	6.7	6.0	8.9	8.7	8.8	8.2	10.7	10.1	10.6	10.4
4	6.7	5.6	6.8	6.4	8.9	8.7	9.0	8.2	10.5	10.1	10.4	10.2
5	7.9	5.6	6.5	6.0	8.9	8.9	9.0	8.8	10.1	9.6	10.3	10.1
6	6.6	5.4	6.4	6.1	8.9	8.8	8.8	8.7	10.0	9.9	10.2	9.9
7	5.7	5.2	6.5	6.1	9.1	8.8	8.7	8.6	10.2	9.9	10.0	9.6
8	6.3	5.1	6.5	6.0	9.0	8.8	8.9	8.6	10.5	10.3	9.7	9.6
9	5.9	5.6	6.3	6.0	9.6	9.1	9.2	8.8	10.5	10.3	10.4	9.7
10	5.9	5.5	6.5	5.9	9.7	9.4	9.5	9.2	10.6	10.4	10.6	10.4
11	5.8	5.3	6.6	6.2	9.5	9.1	9.7	9.2	10.8	10.5	10.5	10.1
12	5.9	5.5	6.8	6.5	9.2	8.9	11.1	9.7	10.9	10.8	10.1	9.8
13	6.0	5.6	7.1	6.7	9.4	9.0	11.7	11.1	10.9	10.7	9.8	9.7
14	5.7	5.3	7.7	7.1	9.8	9.4	11.3	11.2	10.8	10.7	9.7	9.4
15	5.6	5.0	8.0	7.7	9.9	9.7	11.2	11.1	10.8	10.8	9.4	9.1
16	5.9	5.2	7.9	7.6	10.0	9.8	11.3	11.1	10.8	10.5	9.1	9.0
17	6.3	5.5	7.9	7.4	10.1	10.1	11.1	10.7	10.5	9.9	9.4	9.0
18	6.3	5.7	7.8	7.5	10.3	10.1	11.4	10.8	9.9	9.6	9.3	8.9
19	6.4	5.9	7.6	7.3	10.7	10.4	11.5	11.3	9.7	9.6	9.2	8.7
20	7.0	5.8	8.3	7.7	10.5	10.4	11.4	11.3	9.6	9.5	8.8	8.4
21	7.2	5.6	8.4	8.1	10.6	10.5	11.3	10.8	9.8	9.6	8.6	8.3
22	6.0	5.4	8.4	8.0	10.7	10.6	10.8	10.0	10.0	9.8	8.3	8.1
23	5.5	5.1	8.2	7.9	11.1	10.6	10.0	9.8	10.2	10.0	8.4	8.0
24	5.1	4.8	8.1	7.9	11.3	10.8	9.9	9.8	10.2	9.9	9.1	8.5
25	5.3	4.8	8.3	7.9	10.7	10.2	10.1	9.9	10.1	9.8	9.3	9.1
26	6.0	5.3	8.7	8.0	10.5	10.4	10.3	10.1	10.3	10.0	9.4	9.1
27	6.2	5.6	9.1	8.6	10.3	10.1	10.8	10.3	10.9	10.2	9.4	9.2
28	6.5	5.7	9.0	8.8	10.2	9.9	11.3	10.8	11.0	10.8	9.7	9.3
29	6.8	6.3	9.0	8.6	9.9	9.6	11.3	11.2	---	---	9.8	9.6
30	6.9	6.6	8.7	7.9	9.6	9.1	11.4	11.3	---	---	9.7	9.6
31	6.7	6.3	---	---	9.5	8.9	11.3	11.0	---	---	9.8	9.6
MONTH	7.9	4.8	9.1	5.8	11.3	7.5	11.7	8.2	11.0	9.5	10.8	8.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	9.8	9.5	8.4	8.2	6.8	5.9	5.6	5.1	5.6	4.0	6.7	4.8
2	9.5	9.2	8.3	8.1	6.2	5.4	6.1	5.0	6.0	3.8	6.7	4.2
3	9.2	9.0	8.3	7.9	6.7	5.4	7.0	6.2	5.2	3.7	5.6	4.2
4	9.1	8.7	8.6	7.8	6.9	6.3	6.8	5.7	4.9	3.6	4.7	4.2
5	8.9	8.4	8.7	8.4	7.2	6.5	8.3	5.0	5.1	3.9	5.4	4.5
6	8.4	8.1	8.7	8.3	9.3	6.4	8.4	5.7	6.2	4.7	6.6	4.7
7	8.7	8.0	8.6	8.3	9.3	6.9	7.7	4.9	6.3	5.5	5.1	3.9
8	9.1	8.5	8.6	8.2	7.9	5.6	6.4	5.3	7.7	4.8	4.9	4.1
9	9.5	9.1	8.5	8.0	6.0	5.4	7.2	5.3	7.0	4.9	5.3	4.7
10	9.7	9.5	8.0	7.3	6.0	5.6	6.5	5.5	7.1	5.2	5.4	5.0
11	9.5	9.3	7.6	7.2	7.1	5.7	6.6	5.6	6.4	5.1	5.3	5.0
12	9.3	9.1	7.8	7.6	7.6	5.6	9.5	6.0	5.8	5.1	5.3	4.9
13	9.2	8.9	7.9	7.6	7.8	5.5	7.6	5.1	5.5	4.9	6.1	4.9
14	9.0	8.8	7.9	7.5	8.8	5.4	6.2	4.8	5.7	4.9	5.6	4.2
15	8.8	8.2	7.9	7.5	6.8	4.5	6.5	5.4	7.6	5.1	4.8	4.0
16	8.4	8.0	8.6	7.5	5.1	4.4	5.7	5.2	6.9	5.6	5.2	4.4
17	8.2	8.0	9.4	7.3	5.9	4.7	5.6	4.8	5.6	5.0	4.8	4.3
18	8.2	7.6	7.7	6.4	6.3	4.9	6.0	4.9	6.2	5.2	5.8	4.4
19	7.8	7.6	6.9	6.2	6.2	4.9	7.8	5.5	5.9	5.2	6.2	4.7
20	8.5	7.5	6.8	6.3	7.2	5.4	6.0	5.2	5.7	5.3	7.5	4.9
21	8.7	8.3	6.9	6.1	11.2	6.5	5.6	5.2	5.8	5.2	5.1	4.2
22	8.7	8.3	7.2	6.2	8.7	5.3	6.0	4.8	7.2	5.3	5.3	4.3
23	8.8	8.5	8.5	6.4	5.5	4.4	6.5	5.8	10.6	5.8	5.1	4.2
24	9.0	8.6	7.2	5.2	6.6	5.0	7.4	6.1	7.8	4.8	5.6	4.2
25	8.9	8.5	6.2	5.3	6.8	5.7	7.9	5.8	5.6	4.6	6.1	4.7
26	8.6	8.3	6.8	6.1	6.1	5.3	8.3	6.0	5.7	5.2	6.8	5.3
27	8.3	7.9	6.9	6.7	6.8	5.4	7.6	5.8	6.6	5.2	8.1	6.5
28	7.9	7.6	7.1	6.5	7.1	5.5	6.1	4.0	5.3	4.7	7.3	5.7
29	7.8	7.5	7.1	6.7	5.7	4.9	6.7	4.3	6.2	4.5	5.7	4.8
30	8.4	7.8	7.2	6.4	5.5	4.7	4.8	4.0	6.4	5.0	6.1	5.0
31	---	---	7.7	6.5	---	---	4.5	3.9	8.5	5.4	---	---
MONTH	9.8	7.5	9.4	5.2	11.2	4.4	9.5	3.9	10.6	3.6	8.1	3.9
YEAR	11.7	3.6										

02397830 HARRISBURG CREEK NEAR HAWKINS, GA.

LOCATION.--Lat 34°36'02", long 85°23'21", Walker County, Hydrologic Unit 03150105, at bridge on county road, 0.7 mi (1.1 km) west of Hawkins, 0.8 mi (1.3 km) upstream of Spring Creek, and 11 mi (17.7 km) southwest of LaFayette.
DRAINAGE AREA.--13.3 mi^2 (34.4 km^2).
PERIOD OF RECORD.--October 1979 to September 1982 (discontinued).
GAGE.--Water-stage recorder. Altitude of gage is 730 ft (223 m), from topographic map.
REMARKS.--Records fair.
EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 8.89 ft (2.710 m) Mar. 21, 1980 (discharge not determined); minimum discharge, no flow at times most years.
EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 450 ft^3/s (12.7 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Dec. 1	unknown	610	17.3	6.62	2.018	Feb. 3	0315	512	14.5	6.34	1.932
Jan. 3	1645	unknown		*8.74	2.664						

Minimum discharge, no flow on many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	220	148	78	132	.48	23	.00	.00	.00	.00
2	.00	.00	130	85	143	91	.33	17	.00	.00	.00	.00
3	.00	.00	70	984	363	64	.98	12	.00	.00	.00	.00
4	.00	.00	45	775	161	47	.42	9.0	.00	.00	.00	.00
5	.00	.00	30	182	98	36	.78	6.2	.00	.00	.00	.00
6	.00	.00	20	103	67	32	1.5	4.1	.00	.00	.00	.00
7	.00	.00	14	66	49	93	1.1	4.3	.00	.00	.00	.00
8	.00	.00	8.0	47	39	83	3.0	18	.00	.00	.00	.00
9	.00	.00	4.8	37	71	60	9.2	11	.00	.00	.00	.00
10	.00	.00	3.2	26	80	45	9.6	7.9	.00	.00	.00	.00
11	.00	.00	2.1	17	61	34	8.4	5.5	.00	.00	.00	.00
12	.00	.00	1.1	15	47	26	6.7	3.5	.00	.00	.00	.00
13	.00	.00	.45	14	36	20	5.2	2.1	.00	.00	.00	.00
14	.00	.00	28	11	29	15	21	.88	.00	.00	.00	.00
15	.00	.00	41	8.0	25	20	24	.18	.00	.00	.00	.00
16	.00	.00	32	7.1	71	26	19	.05	.00	.75	.00	.00
17	.00	.00	26	4.8	116	27	39	.00	.00	.05	3.7	.00
18	.00	.00	20	4.6	85	25	68	.00	.00	.00	.05	.00
19	.00	.00	15	7.4	60	22	55	.00	.00	.00	.00	.00
20	.00	.00	12	14	46	18	50	.00	.00	.00	.00	.00
21	.00	.00	10	171	36	14	44	.00	.00	.00	.00	.00
22	.00	.00	14	123	26	11	36	20	.00	.00	.00	.00
23	.00	.00	52	157	20	8.3	28	23	.00	.00	.00	.00
24	.00	.00	60	122	16	6.5	22	9.9	.00	.00	.00	.00
25	.00	.00	161	77	12	5.0	75	4.3	.00	.00	.00	.00
26	.00	.00	109	53	14	4.0	153	3.3	.00	.00	.00	.00
27	.00	8.0	68	40	157	2.8	95	1.5	.00	.00	.00	.00
28	.00	4.0	47	31	177	2.1	62	.35	.00	.00	.00	.00
29	.00	6.0	34	24	---	1.8	44	.05	.00	.00	.00	.00
30	.00	15	27	19	---	1.3	32	.00	.00	.00	.00	.00
31	.00	---	143	58	---	.93	---	.00	---	.00	.00	---
TOTAL	.00	33.00	1447.65	3430.9	2183	973.73	914.69	187.11	.00	.80	3.75	.00
MEAN	.000	1.10	46.7	111	78.0	31.4	30.5	6.04	.000	.026	.12	.000
MAX	.00	15	220	984	363	132	153	23	.00	.75	3.7	.00
MIN	.00	.00	.45	4.6	12	.93	.33	.00	.00	.00	.00	.00
CFSM	.000	.08	3.51	8.35	5.87	2.36	2.29	.45	.000	.002	.009	.000
IN.	.00	.09	4.05	9.60	6.11	2.72	2.56	.52	.00	.00	.01	.00

CAL YR 1981 TOTAL 6016.34 MEAN 16.5 MAX 382 MIN .00 CFSM 1.24 IN 16.83
WTR YR 1982 TOTAL 9174.63 MEAN 25.1 MAX 984 MIN .00 CFSM 1.89 IN 25.66

02398000 CHATTOOGA RIVER AT SUMMERVILLE, GA.

LOCATION.--Lat 34 28'03", long 85 20'19", Chattooga County, Hydrologic Unit 03150105, on left bank 600 ft (183 m) downstream from bridge on U.S. Highway 27, 1 mi (1.6 km) southeast of Summerville, and 4 mi (6.4 km) upstream from Raccoon Creek.
DRAINAGE AREA.--192 mi^2 (497 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1937 to current year.
REVISED RECORDS.--WRD GA-80-1: Drainage area.
GAGE.--Water-stage recorder. Datum of gage is 613.47 ft (186.986 m) National Geodetic Vertical Datum of 1929 (levels by Georgia Department of Transportation). Prior to Nov. 12, 1937, nonrecording gage at same site and datum.
REMARKS.--Records good.
AVERAGE DISCHARGE.--45 years, 360 ft^3/s (10.20 m^3/s), 25.46 in/yr (647 mm/yr).
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 24,500 ft^3/s (694 m^3/s) Mar. 29, 1951, gage height, 21.0 ft (6.40 m); minimum daily, 38 ft^3/s (1.08 m^3/s) Oct. 17, 1937, Nov. 9, 1939.
EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,000 ft^3/s (85.0 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 4	0900	*17000	481	18.82	5.736	Feb. 27	2100	3340	94.6	12.40	3.780
Feb. 3	1500	4300	122	13.86	4.225						

Minimum discharge, 68 ft^3/s (1.93 m^3/s) Oct. 8, 9, gage height, 1.97 ft (0.600 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	76	76	1760	1400	796	1230	214	450	137	164	140	98
2	73	76	1090	778	910	946	208	400	130	140	128	100
3	73	74	554	3760	3730	791	214	359	128	130	121	98
4	72	75	415	13900	2130	677	205	326	129	124	118	95
5	75	85	325	3180	1200	593	213	302	134	120	114	90
6	74	102	260	1470	935	543	217	276	132	115	112	90
7	71	84	230	1040	759	1200	197	265	127	114	110	89
8	69	80	210	785	651	912	210	457	124	112	105	87
9	72	78	188	654	1050	736	277	331	122	135	113	86
10	76	77	169	550	1040	634	242	276	121	124	112	85
11	77	76	159	458	787	564	230	250	116	127	120	85
12	75	75	150	419	669	510	221	227	116	116	114	87
13	74	73	146	406	600	465	211	213	130	110	106	88
14	72	72	317	380	527	425	463	199	121	107	104	87
15	72	72	446	348	492	437	356	191	117	105	101	86
16	71	72	341	325	848	632	308	183	128	497	100	84
17	70	72	291	300	1310	513	505	190	140	169	269	83
18	74	71	260	279	954	483	644	196	135	136	202	83
19	73	72	223	285	774	434	534	169	122	130	131	82
20	70	76	199	343	661	406	537	170	121	137	120	82
21	71	73	185	1450	592	380	567	173	119	126	114	80
22	72	70	224	1160	516	353	491	166	127	148	110	79
23	76	71	446	1460	459	330	418	234	124	198	106	79
24	76	76	512	1260	426	314	379	199	117	160	108	79
25	78	83	1140	881	389	294	767	175	116	150	107	91
26	118	73	900	719	408	278	1800	165	119	130	102	90
27	143	389	649	605	2260	256	1060	160	138	122	100	85
28	98	608	515	537	2010	242	782	155	147	117	101	82
29	85	257	431	472	---	232	627	149	138	114	98	82
30	81	401	360	434	---	227	528	144	145	120	96	80
31	78	---	1170	550	---	223	---	141	---	182	97	---
TOTAL	2435	3639	14265	40588	27883	16260	13625	7291	3820	4479	3679	2592
MEAN	78.5	121	460	1309	996	525	454	235	127	144	119	86.4
MAX	143	608	1760	13900	3730	1230	1800	457	147	497	269	100
MIN	69	70	146	279	389	223	197	141	116	105	96	79
CFSM	.41	.63	2.40	6.82	5.19	2.73	2.37	1.22	.66	.75	.62	.45
IN.	.47	.71	2.76	7.86	5.40	3.15	2.64	1.41	.74	.87	.71	.50

CAL YR 1981 TOTAL 90031 MEAN 247 MAX 2400 MIN 69 CFSM 1.29 IN 17.44
WTR YR 1982 TOTAL 140556 MEAN 385 MAX 13900 MIN 69 CFSM 2.01 IN 27.23

02398000 CHATTOOGA RIVER AT SUMMERVILLE, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1968 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	TEMPER-ATURE, AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT										
28...	0930	99	399	390	7.9	7.8	13.0	14.5	7.8	--
NOV										
24...	0845	79	334	400	8.0	7.9	10.0	9.0	8.9	81
DEC										
30...	1015	368	164	--	7.7	7.9	8.0	3.5	11.2	95
JAN										
28...	0900	545	--	200	7.5	7.9	6.0	3.0	11.1	90
FEB										
25...	1045	392	--	185	--	7.8	12.0	8.0	9.5	88
APR										
01...	1045	215	285	287	8.1	8.1	15.0	22.5	9.6	95
28...	1530	750	160	--	7.5	7.7	16.0	27.0	9.7	101
MAY										
26...	0915	163	290	277	7.6	7.8	19.5	23.5	6.8	76
JUN										
28...	1445	147	320	306	7.7	7.8	21.5	30.0	7.2	84
JUL										
29...	0900	114	353	337	7.9	7.9	24.0	28.5	6.0	71
AUG										
24...	1245	104	--	382	7.8	8.0	22.5	30.0	6.7	79
SEP										
28...	1335	82	450	471	8.1	8.0	18.0	27.0	8.0	86

DATE	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	ALKA-LINITY LAB (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT										
28...	3	.8	150	122	.00	140	.48	.070	.190	4.0
NOV										
24...	5	1.0	430	108	.00	153	.82	--	.220	8.9
DEC										
30...	6	.6	90	80	5.0	75	.60	.080	.040	<1.0
JAN										
28...	17	1.3	65	80	8.0	72	.53	.020	.060	5.0
FEB										
25...	7	.5	110	92	2.0	90	.55	.020	.060	<1.0
APR										
01...	6	1.5	20	94	.00	116	.44	.040	.140	6.0
28...	13	1.9	600	68	2.0	66	.30	.060	.100	--
MAY										
26...	6	.8	7900	100	.00	112	.60	.150	.100	3.0
JUN										
28...	8	--	4900	114	.00	134	.49	.060	.120	5.5
JUL										
29...	6	2.3	230	124	.00	147	.46	.050	.180	--
AUG										
24...	8	2.0	3500	110	.00	147	.52	.040	.150	1.5
SEP										
28...	5	2.3	50	111	.00	167	.94	.070	.200	6.0

02398037 CHATTOOGA RIVER AT CHATTOOGAVILLE, GA.

LOCATION.--Lat 34°20'08", long 85°26'43", Chattooga County, Hydrologic Unit 03150105, at bridge on Holland-Chattoogaville Road, 0.4 mi (0.6 km) downstream from Hinton Creek, and 0.7 mi (1.1 km) south of Chattoogaville.

DRAINAGE AREA.--281 mi^2 (728 km^2).

PERIOD OF RECORD.--August 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	TEMPER-ATURE, AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT										
28...	1045	170	334	332	7.8	7.8	13.0	18.0	7.3	--
NOV										
24...	1045	118	344	350	8.0	7.9	8.5	12.0	9.4	81
DEC										
30...	1200	500	170	170	7.8	7.9	8.0	9.5	11.1	94
JAN										
28...	1015	750	--	158	7.5	7.8	6.0	5.5	10.7	86
FEB										
25...	1145	620	--	155	--	7.9	12.5	9.0	9.4	89
APR										
01...	1200	320	270	272	8.2	8.1	16.0	23.5	10.1	102
28...	1445	1120	150	--	7.7	7.6	16.0	29.0	9.2	95
MAY										
26...	1015	250	260	252	7.6	7.8	20.0	25.0	7.1	80
JUN										
28...	1400	205	310	321	7.7	7.7	23.0	29.5	6.7	80
JUL										
29...	1015	148	315	303	7.9	7.8	25.0	31.5	6.2	76
AUG										
24...	1200	130	--	330	7.7	7.8	23.0	30.0	6.5	77
SEP										
28...	1300	110	385	399	7.8	7.9	18.0	27.0	7.4	80

DATE	TUR-BID-ITY (JTU)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	ALKA-LINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)
OCT								
28...	8	0	1.4	430	110	.00	125	3
NOV								
24...	4	4	.9	90	112	.00	146	2
DEC								
30...	6	9	.6	<30	86	7.0	79	10
JAN								
28...	16	9	.7	1300	78	5.0	73	15
FEB								
25...	8	3	.6	220	104	18	86	17
APR								
01...	9	12	1.3	460	94	.00	113	24
28...	8	11	.8	1700	70	7.0	63	15
MAY								
26...	8	9	.6	230	100	.00	109	13
JUN								
28...	10	17	--	330	116	.00	130	26
JUL								
29...	9	--	1.6	270	126	.00	128	19
AUG								
24...	12	--	1.2	220	102	.00	138	13
SEP								
28...	5	--	2.5	<20	116	.00	148	3

02398037 CHATTOOGA RIVER AT CHATTOOGAVILLE, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT					
28...	.40	.100	.30	.300	5.0
NOV					
24...	.46	.080	.10	.120	4.7
DEC					
30...	.10	.080	.10	.040	<1.0
JAN					
28...	.54	.040	.20	.100	3.0
FEB					
25...	.49	.030	.13	.100	<1.0
APR					
01...	.38	.040	.20	.210	4.0
28...	.28	.060	.20	.080	3.0
MAY					
26...	.75	.040	.20	.200	2.0
JUN					
28...	.48	.040	.40	.240	5.0
JUL					
29...	.58	.040	--	.300	--
AUG					
24...	.58	.040	--	.240	<1.0
SEP					
28...	.37	.080	--	.230	8.0

02411800 LITTLE RIVER NEAR BUCHANAN, GA.

LOCATION.--Lat 33°47'51", long 85°07'03", Haralson County, Hydrologic Unit 03150108, on right bank 150 ft (46 m) upstream from county highway bridge, 4.5 mi (7.2 km) east of Buchanan, and 7 mi (11.3 km) upstream from mouth.
DRAINAGE AREA.--20.2 mi^3 (52.3 km^2).
PERIOD OF RECORD.--June 1959 to current year.
REVISED RECORDS.--WRD GA-80-1: Drainage area.
GAGE.--Water-stage recorder. Altitude of gage is 1,110 ft (338 m), from topographic map.
REMARKS.--Records good except those for period of no gage-height record, Dec. 19 to Feb. 11, which are poor.
AVERAGE DISCHARGE.--23 years, 34.1 ft^3/s (0.966 m^3/s), 22.92 in/yr (582 mm/yr).
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,820 ft^3/s (108 m^3/s) Mar. 14, 1966, gage height, 12.58 ft (3.834 m), from rating curve extended above 2,300 ft^3/s (65.1 m^3/s) on basis of slope-area measurement at gage height, 12.47 ft (3.801 m); minimum, 1.6 ft^3/s (0.045 m^3/s) Oct. 5, 6, 1970.
EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 500 ft^3/s (14.2 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 3	unknown	*1870	53.0	8.56	2.609	Apr. 25	1830	1310	37.1	6.65	2.027
Apr. 5	0915	608	17.2	3.35	1.021	Apr. 27	0200	720	20.4	3.46	1.055

Minimum daily discharge, 2.6 ft^3/s (0.074 m^3/s) Sept. 23, 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.4	6.0	80	65	30	49	21	88	24	24	26	6.5
2	3.2	6.2	45	38	150	41	20	62	21	20	31	7.6
3	3.1	6.2	25	280	800	36	21	48	47	18	18	7.5
4	3.1	6.5	18	220	300	33	19	36	70	16	14	6.2
5	3.5	7.3	14	130	140	30	160	31	57	25	13	5.4
6	3.2	8.8	12	60	80	34	65	29	37	18	13	5.0
7	3.0	7.9	12	40	60	97	42	31	28	16	13	4.7
8	2.9	6.6	12	55	45	57	43	68	24	15	15	4.4
9	3.4	7.0	11	40	37	44	44	38	21	14	15	4.3
10	14	7.1	10	30	50	38	33	31	19	14	14	4.5
11	11	7.3	10	24	54	34	29	27	18	18	14	5.8
12	8.2	7.5	10	22	47	32	26	25	18	20	14	7.0
13	6.7	7.2	10	24	39	32	24	24	68	17	24	8.2
14	5.8	7.0	24	22	32	32	50	22	33	15	22	8.2
15	5.5	7.3	26	20	36	40	89	21	24	16	16	6.4
16	5.3	7.4	20	20	54	39	61	21	20	30	13	5.2
17	5.4	9.1	16	19	55	37	66	23	19	22	23	4.4
18	6.1	7.6	14	19	43	33	60	21	18	18	19	3.9
19	6.0	9.7	12	21	37	29	56	19	17	16	15	3.6
20	5.3	25	13	24	32	28	179	35	15	15	13	3.4
21	5.3	10	15	26	30	28	90	54	15	14	12	3.1
22	5.5	7.3	14	28	27	31	59	40	24	14	10	2.8
23	8.5	6.7	15	42	26	26	45	54	21	20	11	2.6
24	7.9	7.6	16	46	25	24	38	44	17	15	9.0	2.6
25	10	7.0	36	40	24	24	539	60	15	14	9.7	4.1
26	18	6.6	22	30	28	24	314	66	24	13	8.5	4.6
27	22	6.6	21	27	60	21	316	52	54	12	7.5	4.4
28	9.4	6.7	20	23	61	20	143	43	31	11	7.5	4.1
29	7.6	6.4	19	19	---	20	122	31	37	13	7.5	3.7
30	6.7	29	17	21	---	21	108	26	31	15	6.7	3.2
31	6.1	---	100	26	---	22	---	24	---	16	6.6	---
TOTAL	215.1	258.6	689	1501	2402	1056	2882	1194	867	524	441.0	147.4
MEAN	6.94	8.62	22.2	48.4	85.8	34.1	96.1	38.5	28.9	16.9	14.2	4.91
MAX	22	29	100	280	800	97	539	88	70	30	31	8.2
MIN	2.9	6.0	10	19	24	20	19	19	15	11	6.6	2.6
CFSM	.34	.43	1.10	2.40	4.25	1.69	4.76	1.91	1.43	.84	.70	.24
IN.	.40	.48	1.27	2.76	4.42	1.94	5.31	2.20	1.60	.96	.81	.27

CAL YR 1981 TOTAL 7997.0 MEAN 21.9 MAX 500 MIN 2.9 CFSM 1.08 IN 14.73
WTR YR 1982 TOTAL 12177.1 MEAN 33.4 MAX 800 MIN 2.6 CFSM 1.65 IN 22.42

02411930 TALLAPOOSA RIVER BELOW TALLAPOOSA, GA.

LOCATION.--Lat 33°44'27", long 85°20'11", Haralson County, Hydrologic Unit 03150108, at bridge on U.S. Highway 78, 0.4 mi (0.6 km) upstream from Walker Creek, and 2.7 mi (4.3 km) west of Tallapoosa.
DRAINAGE AREA.--272 mi^2 (704 km^2), revised.
PERIOD OF RECORD.--July 1974 to current year.
REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE (DEG C)	TEMPERATURE, AIR (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
NOV 04...	1715	95	45	44	7.0	6.9	16.5	22.0	7.8	82
JAN 07...	1645	680	33	30	6.6	6.7	9.5	13.0	10.6	--
MAR 10...	1840	600	27	29	--	6.8	10.5	12.0	11.2	--
MAY 06...	1230	500	30	31	6.9	7.1	17.0	28.0	9.2	98
JUN 29...	1415	900	--	28	6.8	6.7	29.0	34.5	8.8	118
AUG 10...	1330	155	32	37	6.9	7.2	24.0	31.0	8.6	104
SEP 08...	1630	104	42	38	7.3	7.1	21.0	29.5	7.9	91

DATE	TURBIDITY (JTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, FC BROTH (MPN)	ALKALINITY LAB (MG/L AS CACO3)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV 04...	9	.8	90	14	.03	.020	.050	3.5
JAN 07...	35	1.2	--	7.0	.28	<.020	.100	2.0
MAR 10...	11	.9	130	9.0	.14	.050	.020	2.0
MAY 06...	10	.6	80	11	.14	<.020	.020	1.0
JUN 29...	132	1.8	--	9.0	.19	.060	.220	8.0
AUG 10...	8	.6	700	13	.10	.020	.020	--
SEP 08...	14	.3	80	15	.08	.020	.040	<1.0

02413210 LITTLE TALLAPOOSA RIVER BELOW BOWDON, GA.

LOCATION.--Lat 33°29'34", long 85°16'45", Carroll County, Hydrologic Unit 03150108, at bridge on State Highway 100, 1.9 mi (3.1 km) upstream from Indian Creek, and 3.8 mi (6.1 km) southwest of Bowdon.
DRAINAGE AREA.--245 mi^2 (635 km^2).
PERIOD OF RECORD.--July 1974 to current year.
REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE (DEG C)	TEMPERATURE, AIR (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT										
07...	1430	51	104	103	6.8	6.6	17.5	21.5	6.1	65
NOV										
04...	1615	76	98	99	6.7	6.8	16.0	22.5	5.2	54
DEC										
07...	1500	102	71	72	6.7	6.8	6.5	19.0	9.7	79
JAN										
07...	1500	830	45	45	6.4	6.7	8.5	19.5	9.7	85
FEB										
09...	1330	1680	32	32	6.4	6.4	6.0	17.0	10.7	88
MAR										
10...	1800	400	40	43	--	6.8	11.0	19.0	8.6	--
APR										
08...	1215	460	42	47	6.9	6.9	12.0	8.0	9.5	90
MAY										
06...	1130	310	49	49	6.7	7.0	17.5	25.0	8.1	87
JUN										
08...	1400	290	48	44	--	6.8	22.0	32.0	7.6	88
29...	1515	288	--	46	6.8	7.1	24.0	34.5	8.0	98
AUG										
10...	1430	312	--	62	6.9	7.2	25.0	32.0	8.2	101
SEP										
08...	1530	72	83	80	7.2	7.1	21.0	28.5	7.6	87

DATE	TURBIDITY (JTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	ALKALINITY LAB (MG/L AS CACO3)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT								
07...	4	1.0	40	17	1.4	.120	.250	3.0
NOV								
04...	8	2.0	930	18	.74	.250	.530	4.5
DEC								
07...	8	1.8	150	17	.54	.180	.210	3.0
JAN								
07...	56	2.5	430	8.0	.47	.080	.200	5.0
FEB								
09...	50	1.4	330	7.0	.22	.060	.140	5.0
MAR								
10...	14	1.6	140	11	.35	.140	.120	1.0
APR								
08...	15	.9	80	12	.31	.070	.120	3.0
MAY								
06...	16	1.0	110	15	.36	.080	.180	1.0
JUN								
08...	14	.6	170	14	.36	.040	.100	3.0
29...	20	1.0	--	13	.37	.110	.180	2.0
AUG								
10...	11	.8	80	16	.69	.080	.400	--
SEP								
08...	8	.7	20	20	1.0	.040	.910	1.0

LAKES AND RESERVOIRS IN MOBILE RIVER BASIN

02381400 CARTERS LAKE.--Lat 34°36'50", long 84°40'16", Murray County, Hydrologic Unit 03150102, at forebay of dam on Coosawattee River, 1.3 mi (2.1 km) upstream from Talking Rock Creek, 1.3 mi (2.1 km) east of Carters, 1.9 mi (3.1 km) upstream from Louisville and Nashville Railway bridge, and at mile 26.8 (43.1 km). DRAINAGE AREA, 373 mi^2 (966 km^2). PERIOD OF RECORD, November 1974 to current year. REVISED RECORDS, WRD GA-80-1: Drainage area. GAGE, water-stage recorder. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

Lake is formed by rolled rock-filled dam. Emergency spillway, crest elevation, 1,070 ft (326.14 m), is equipped with five taintor gates 42 ft (12.8 m) wide by 36.6 ft (11.2 m) high. There is one sluice 16.5 ft (5.0 m) in diameter. Storage began Nov. 12, 1974. Lake first reached minimum pool, elevation, 1,022 ft (311.51 m) Mar. 17, 1975. Power operation began July 19, 1975. Capacity at primary flood control pool elevation, 1,099 ft (334.98 m), 472,800 acre-ft (583 hm^3). Capacity at maximum power pool elevation, 1,072 ft (326.75 m), 377,100 acre-ft (465 hm3). Dead storage below elevation 1,022 ft (311.51 m), 242,200 acre-ft (299 hm^3). Lake is used for flood control and power. Capacity table and monthend elevations furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 472,400 acre-ft (582 hm^3) Apr. 8, 1977, elevation, 1,099.16 ft (335.024 m); minimum, after first filling, 347,900 acre-ft (429 hm^3) Oct. 16, 1981, elevation, 1,062.90 ft (323.972 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 413,700 acre-ft (510 hm^3) Jan. 8, elevation, 1,083.18 ft (330.153 m); minimum, 347,900 acre-ft (429 hm^3) Oct. 16, elevation, 1,062.90 ft (323.972 m).

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)	Change in contents (equivalent in cubic feet per second)
Sept. 30................	1068.05	363800	-	-
Oct. 31................	1065.40	355500	-8300	-135
Nov. 30................	1068.90	366400	+10900	+183
Dec. 31................	1071.19	373700	+7300	+119
CAL YR 1981	-	-	-1200	-2
Jan. 31................	1073.00	379500	+5800	+94
Feb. 28................	1074.80	385400	+5900	+106
Mar. 31................	1069.90	369600	-15800	-257
Apr. 30................	1071.10	370200	+600	+10
May 31................	1072.39	377500	+7300	+119
June 30................	1072.00	376300	-1200	-20
July 31................	1071.22	373800	-2500	-41
Aug. 31................	1072.65	378400	+4600	+75
Sept. 30................	1067.50	362000	-16400	-276
WTR YR 1982	-	-	-1800	-2

02382400 CARTERS RE-REGULATION DAM.--Lat 34°36'15", long 84°41'29", Murray County, Hydrologic Unit 03150102, at afterbay of main dam, on Coosawattee River, 0.2 mi (0.3 km) downstream from Talking Rock Creek, 0.2 mi (0.3 km) upstream from Louisville and Nashville Railway bridge, 1.5 mi (2.4 km) downstream from main dam and at mile 25.3 (40.7 km). DRAINAGE AREA, 520 mi^2 (1,350 km^2). PERIOD OF RECORD, July 1975 to current year. REVISED RECORDS, WRD GA-80-1: Drainage area. GAGE, water-stage recorder. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

Reservoir is formed by concrete gravity dam with earth dikes on either side. Spillway, crest elevation, 662.5 ft (201.93 m) is equipped with four taintor gages 42 ft (12.8 m) wide by 36.5 ft (11.1 m) high. Capacity at maximum storage pool elevation, 698 ft (212.8 m), 17,600 acre-ft (21.7 hm^3). Dead storage, 290 acre-ft (0.36 hm^3). The reservoir is used for storage and re-regulation of power releases from Carters main dam. Capacity table and monthend elevations furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 18,800 acre-ft (23.2 hm^3) Apr. 14, 1977, elevation, 699.36 ft (213.165 m); minimum, 500 acre-ft (0.62 hm^3) June 30, 1975, elevation, 666.12 ft (203.033 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 17,500 acre-ft (21.6 hm^3) Sept. 10, elevation, 698.12 ft (212.787 m); minimum, 700 acre-ft (0.86 hm^3) Jan. 11, elevation, 668.90 ft (203.881 m).

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)	Change in contents (equivalent in cubic feet per second)
Sept. 30................	693.48	13600	-	-
Oct. 31................	693.63	13700	+100	+2
Nov. 30................	691.99	12400	-1300	-22
Dec. 31................	686.38	8100	-4300	-70
CAL YR 1981	-	-	-1300	-2
Jan. 31................	681.54	4800	-3300	-54
Feb. 28................	685.92	7700	+2900	+52
Mar. 31................	687.31	8800	+1100	+18
Apr. 30................	692.88	13100	+4300	+72
May 31................	687.28	8700	-4400	-72
June 30................	688.84	9900	+1200	+20
July 31................	691.37	11900	+2000	+33
Aug. 31................	685.05	7100	-4800	-78
Sept. 30................	695.69	15400	+8300	+139
WTR YR 1982	-	-	+1800	+2

LAKES AND RESERVOIRS IN MOBILE RIVER BASIN--Continued

02393500 **ALLATOONA RESERVOIR.**--Lat 34°09'46", long 84°43'40", Bartow County, Hydrologic Unit 03150104, at forebay of dam on Etowah River, 2.8 mi (4.5 km) upstream from Nashville, Chattanooga, & St. Louis Railway bridge, 4 mi (6.4 km) east of Cartersville, and 6 mi (9.7 km) upstream from Pumpkinvine Creek. DRAINAGE AREA, 1,120 mi^2 (2,900 km^2), revised. PERIOD OF RECORD, December 1949 to current year. REVISED RECORDS, WRD GA-80-1: Drainage area. GAGE, water-stage recorder. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

Lake is formed by concrete gravity dam. Spillway, crest elevation, 835.0 ft (254.51 m) is equipped with nine taintor gates 40 ft (12.2 m) wide by 25 ft (7.6 m) high. There are four sluices 5.67 ft (1.73 m) by 10 ft (3.05 m) high and one sluice 4.0 ft (1.22 m) in diameter. Storage began Dec. 27, 1949; water in lake first reached minimum pool elevation Feb. 5, 1950. Total capacity at elevation 860.0 ft (262.13 m), top of gates, is 670,000 acre-ft (826 hm^3), of which 587,100 acre-ft (724 hm^3) is controlled storage above 800 ft (243.84 m), minimum pool. Lake is used for flood control and power. Records furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 693,800 acre-ft (855 hm^3) Apr. 10, 1964, elevation, 861.19 ft (262.491 m); minimum, 119,600 acre-ft (147 hm^3) Dec. 4, 1954, elevation, 809.34 ft (246.69 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 471,700 acre-ft (582 hm^3) Feb. 7, elevation, 848.01 ft (258.473 m); minimum, 187,000 acre-ft (231 hm^3) Dec. 23, elevation, 820.86 ft (250.198 m).

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)	Change in contents (equivalent in cubic feet per second)
Sept. 30................	826.77	233100	-	-
Oct. 31................	824.36	213300	-19800	-322
Nov. 30................	821.23	189700	-23600	-397
Dec. 31................	823.20	204300	+14600	+237
CAL YR 1981	-	-	-14100	-19
Jan. 31................	832.58	286700	+82400	+1340
Feb. 28................	837.66	340400	+53700	+967
Mar. 31................	837.40	337500	-2900	-47
Apr. 30................	843.94	416400	+78900	+1326
May 31................	842.06	392500	-23900	-389
June 30................	840.68	375600	-16900	-284
July 31................	840.15	369300	-6300	-102
Aug. 31................	838.87	354200	-15100	-246
Sept. 30................	835.79	319900	-34300	-576
WTR YR 1982	-	-	+86800	+120

03545000 HIWASSEE RIVER AT PRESLEY, GA.

LOCATION.--Lat 34°54'17", long 83°42'01", Towns County, Hydrologic Unit 06020002, on left bank 0.1 mi (0.2 km) downstream from Cynth Creek, 0.5 mi (0.8 km) southeast of Presley, 1.4 mi (2.3 km) upstream from Hightower Creek, and at mile 133.9 (215.4 km).

DRAINAGE AREA.--45.5 mi^2 (118 km^2).

PERIOD OF RECORD.--October 1941 to March 1982 (discontinued). Monthly discharge only for some periods, published in WSP 1306.

REVISED RECORDS.--WSP 973: 1942. WSP 1910: 1957-58, 1959-60(P).

GAGE.--Water-stage recorder. Datum of gage is 1,932.69 ft (589.084 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Records of chemical analyses for the water years 1969-74 are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--40 years, 139 ft^3/s (3.936 m^3/s), 41.49 in/yr (1,054 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,700 ft^3/s (161 m^3/s) Mar. 11, 1952, gage height, 15.24 ft (4.645 m), from rating curve extended above 3,000 ft^3/s (85.0 m^3/s) on basis of slope-area and contracted-opening measurements at gage heights 12.80 and 15.24 ft (3.901 and 4.645 m), respectively; minimum, 15 ft^3/s (0.42 m^3/s) Dec. 16, 1958, gage-height, 1.48 ft (0.451 m), result of a freezeup; minimum daily, 23 ft^3/s (0.65 m^3/s) Sept. 29, Oct. 5, 6, 8, 10-13, 1954, Sept. 7, 1957.

EXTREMES FOR OCTOBER 1, 1981 TO MARCH 31, 1982.--Peak discharges above base of 800 ft^3/s (22.7 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 4	0515	980	27.8	4.85	1.478	Feb. 3	0500	*1620	45.9	6.40	1.951

Minimum discharge, 26 ft^3/s (0.74 m^3/s) Oct. 7-9, gage height, 1.28 ft (0.390 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	36	134	202	242	175						
2	29	35	103	134	265	180						
3	29	34	74	371	1120	180						
4	29	34	61	697	511	170						
5	28	37	54	317	335	158						
6	28	36	50	220	285	160						
7	28	33	47	168	242	235						
8	27	32	44	132	215	200						
9	29	32	42	118	270	180						
10	41	32	40	108	250	165						
11	32	31	39	328	220	160						
12	31	31	38	232	198	144						
13	30	30	38	127	185	138						
14	30	30	52	87	165	130						
15	30	30	55	79	160	190						
16	30	30	51	79	198	178						
17	29	30	48	72	267	162						
18	33	30	46	70	242	148						
19	31	29	41	90	220	142						
20	30	38	45	89	198	136						
21	30	30	54	245	185	128						
22	30	30	57	182	168	124						
23	49	29	73	178	158	118						
24	37	43	73	150	148	116						
25	36	34	148	132	140	114						
26	96	32	120	116	140	110						
27	68	75	94	108	200	106						
28	49	70	80	102	175	103						
29	43	50	71	96	---	102						
30	39	76	64	93	---	102						
31	38	---	202	228	---	100						
TOTAL	1118	1119	2138	5350	7102	4554						
MEAN	36.1	37.3	69.0	173	254	147						
MAX	96	76	202	697	1120	235						
MIN	27	29	38	70	140	100						
CFSM	.79	.82	1.52	3.80	5.58	3.23						
IN.	.91	.91	1.75	4.37	5.81	3.72						

CAL YR 1981 TOTAL 28232 MEAN 77.3 MAX 651 MIN 27 CFSM 1.70 IN 23.08

03550500 NOTTELY RIVER NEAR BLAIRSVILLE, GA.

LOCATION.--Lat 34°50'28", long 83°56'10", Union County, Hydrologic Unit 06020002, on left bank 250 ft (76 m) upstream from county road bridge, 0.1 mi (0.2 km) downstream from Arkaqua Creek, 0.2 mi (0.3 km) upstream from Akins Creek, 2.7 mi (4.3 km) southeast of Blairsville, and at mile 44.3 (71.3 km).

DRAINAGE AREA.--74.8 mi^2 (194 km^2).

PERIOD OF RECORD.--January 1942 to March 1982 (discontinued).

REVISED RECORDS.--WSP 1053: 1942(M), 1943. WSP 1236: 1946(M), 1950(M).

GAGE.--Water-stage recorder. Datum of gage is 1,812.47 ft (552.441 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Occasional regulation by Lake Trahlyta in Vogel State Park.

AVERAGE DISCHARGE.--39 years, 188 ft^3/s (5.324 m^3/s), 34.13 in/yr (867 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,900 ft^3/s (365 m^3/s) Aug. 23, 1967, gage height, 21.04 ft (6.413 m), from floodmark, from rating curve extended above 3,400 ft^3/s (96.3 m^3/s) on basis of contracted-opening measurements at gage heights 13.29 ft (4.051 m), 16.78 ft (5.115 m), and 21.04 ft (6.413 m); minimum, 27 ft^3/s (0.76 m^3/s) Sept. 8, Oct. 7, 1947, gage height, 1.77 ft (0.539 m).

EXTREMES FOR OCTOBER 1, 1981 TO MARCH 31, 1982.--Peak discharges above base of 2,000 ft^3/s (56.6 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 4	0545	3160	89.5	8.72	2.658	Feb. 3	0500	*3500	99.1	9.40	2.865

Minimum discharge, 32 ft^3/s (0.91 m^3/s) Oct. 1, 2, gage height, 1.85 ft (0.564 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	38	222	279	364	270						
2	33	42	151	184	460	258						
3	33	41	103	903	2180	249						
4	34	41	88	1650	798	234						
5	33	46	77	546	525	216						
6	33	45	70	336	420	209						
7	33	41	68	261	332	389						
8	33	40	63	210	285	295						
9	35	40	61	177	408	260						
10	48	40	55	139	356	234						
11	37	37	55	165	300	221						
12	36	37	55	139	270	208						
13	34	37	53	130	252	192						
14	33	37	73	119	228	185						
15	34	36	80	110	222	261						
16	34	37	72	107	273	250						
17	34	37	68	99	444	225						
18	36	37	65	100	364	210						
19	36	37	64	132	320	196						
20	34	51	87	128	279	189						
21	34	40	87	570	258	180						
22	35	38	82	340	231	168						
23	58	38	129	300	213	161						
24	44	57	126	264	198	155						
25	42	44	272	225	186	150						
26	107	42	185	192	192	145						
27	75	157	138	165	364	138						
28	55	114	117	150	291	133						
29	49	73	105	139	---	133						
30	45	132	94	132	---	131						
31	43	---	333	372	---	130						
TOTAL	1283	1532	3298	8763	11013	6375						
MEAN	41.4	51.1	106	283	393	206						
MAX	107	157	333	1650	2180	389						
MIN	33	36	53	99	186	130						
CFSM	.55	.68	1.42	3.78	5.25	2.75						
IN.	.64	.76	1.64	4.36	5.48	3.17						

CAL YR 1981 TOTAL 38299 MEAN 105 MAX 1860 MIN 32 CFSM 1.40 IN 19.05

03558000 TOCCOA RIVER NEAR DIAL, GA.

LOCATION.--Lat 34°47'24", long 84°14'24", Fannin County, Hydrologic Unit 06020003, on right bank 1.4 mi (2.3 km) upstream from Shallowford Bridge, 1.8 mi (2.9 km) upstream from Stanley Creek, 2.5 mi (4.0 km) northwest of Dial, and at mile 69.1 (111.2 km).
DRAINAGE AREA.--177 mi^2 (458 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1912 to current year. Prior to January 1913 monthly discharges only, published in WSP 1306.
REVISED RECORDS.--WSP 823: Drainage area. WSP 1386: 1923(M), 1924, 1927(M), 1929-32(M), 1933, 1934(M), 1944(M).
GAGE.--Water-stage recorder. Datum of gage is 1,792.08 ft (546.226 m) National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1927, water-stage recorder and Oct. 1, 1927, to Nov. 16, 1928, nonrecording gage at same site and datum.
REMARKS.--Records good.
AVERAGE DISCHARGE.--70 years, 497 ft^3/s (14.08 m^3/s), 38.13 in/yr (969 mm/yr).
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,700 ft^3/s (416 m^3/s), Aug. 23, 1967, gage height, 13.73 ft (4.185 m), from rating curve extended above 5,000 ft^3/s (142 m^3/s) on basis of slope-area measurement at gage height 11.20 ft (3.414 m), and a contracted-opening measurement at 13.73 ft (4.185 m); minimum, 60 ft^3/s (1.70 m^3/s) Sept. 6, 1925, gage height, 0.40 ft (0.122 m).
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of November 1906 reached a stage of 18.5 ft (5.64 m) and is highest known since about 1840, from reports of Tennessee Valley Authority.
EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,400 ft^3/s (68.0 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 3	2000	5510	156	7.71	2.350
Jan. 21	0915	3160	89.5	5.58	1.701
Feb. 3	0730	*5630	159	7.73	2.356

Minimum daily discharge, 113 ft^3/s (3.20 m^3/s) Oct. 8, gage height, 0.79 ft (0.241 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	118	138	660	692	997	839	486	508	364	276	790	295
2	115	135	469	459	1030	802	473	482	344	246	469	364
3	114	121	307	2160	4040	761	525	477	314	240	356	284
4	115	118	255	3740	1920	724	490	460	344	240	309	253
5	115	150	219	1450	1390	698	486	444	400	240	287	240
6	115	163	199	968	1170	664	495	439	353	225	275	235
7	115	129	186	778	1030	1120	456	431	318	219	259	230
8	113	128	178	646	936	871	460	700	311	228	284	226
9	115	128	166	574	1150	784	535	508	304	252	443	218
10	158	125	157	501	1040	732	477	460	303	304	619	216
11	135	123	145	440	922	706	440	440	312	431	513	276
12	128	123	152	410	852	683	444	429	315	301	440	285
13	122	121	147	400	813	654	440	416	510	255	382	255
14	119	121	208	390	754	643	442	384	360	231	367	239
15	118	119	226	380	720	801	439	396	312	231	353	229
16	117	120	199	375	885	826	427	395	297	304	328	216
17	116	122	189	370	1220	721	499	402	298	411	331	210
18	127	118	180	365	1020	678	535	437	304	348	400	207
19	131	117	170	400	931	645	465	520	279	348	381	205
20	118	162	160	477	838	630	457	414	269	286	328	200
21	117	130	241	1880	803	606	440	403	259	249	305	196
22	117	123	306	1050	746	581	432	386	260	243	292	191
23	197	120	477	922	702	572	407	409	266	297	279	188
24	182	203	406	811	684	562	411	458	231	304	290	189
25	158	159	571	704	652	530	665	434	246	352	311	194
26	407	134	454	627	654	535	1130	488	240	294	283	219
27	330	448	353	571	1090	517	780	416	258	262	276	249
28	212	486	304	547	936	499	650	392	308	240	306	203
29	174	249	273	517	---	465	577	376	344	290	260	190
30	156	360	248	504	---	473	535	345	333	660	246	185
31	144	---	692	957	---	490	---	348	---	640	249	---
TOTAL	4618	4993	8897	25065	29925	20812	15498	13597	9356	9447	11011	6887
MEAN	149	166	287	809	1069	671	517	439	312	305	355	230
MAX	407	486	692	3740	4040	1120	1130	700	510	660	790	364
MIN	113	117	145	365	652	465	407	345	231	219	246	185
CFSM	.84	.94	1.62	4.57	6.04	3.79	2.92	2.48	1.76	1.72	2.01	1.30
IN.	.97	1.05	1.87	5.27	6.29	4.37	3.26	2.86	1.97	1.99	2.31	1.45

CAL YR 1981 TOTAL 102961 MEAN 282 MAX 1900 MIN 113 CFSM 1.59 IN 21.64
WTR YR 1982 TOTAL 160106 MEAN 439 MAX 4040 MIN 113 CFSM 2.48 IN 33.65

03558000 TOCCOA RIVER NEAR DIAL, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1978 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
OCT					
15...	1030	117	13.0	2	.63
DEC					
01...	1150	304	7.0	7	5.7
FEB					
23...	1520	706	8.0	9	17
MAR					
31...	0930	490	12.0	9	12
MAY					
11...	1445	444	17.0	6	7.2
JUN					
23...	1625	265	20.5	6	4.3
AUG					
03...	1430	387	19.0	17	18
SEP					
14...	1720	240	21.0	6	3.9

03566800 SOUTH CHICKAMAUGA CREEK AT GRAYSVILLE, GA.

LOCATION.--Lat 34°58'39", long 85°08'42", Catoosa County, Hydrologic Unit 06020001, at bridge on Graysville Road at Graysville, 200 ft (61 m) above dam at Swanson Mill, and 19.5 mi (31.4 km) above mouth.

DRAINAGE AREA.--198 mi^2 (513 km^2).

PERIOD OF RECORD.--August 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE (DEG C)	TEMPERATURE, AIR (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
NOV 23...	1515	105	--	280	7.9	8.1	8.5	11.5	11.0	95
JAN 27...	1640	390	--	151	7.9	7.7	5.0	8.0	12.3	97
MAR 31...	1615	180	212	212	8.3	8.3	15.5	26.0	13.1	132
MAY 25...	1430	92	247	246	7.9	7.8	21.5	26.5	8.7	100
JUN 29...	0745	100	250	265	7.8	7.9	22.0	22.0	7.1	84
JUL 28...	1515	120	210	216	7.8	7.9	25.0	31.5	6.9	84
SEP 29...	0800	55	270	274	8.1	8.0	17.0	13.5	8.4	89

DATE	TURBIDITY (JTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	HARDNESS (MG/L AS CACO3)	HARDNESS NONCARBONATE (MG/L AS CACO3)	ALKALINITY LAB (MG/L AS CACO3)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV 23...	5	<.1	90	128	6.0	122	.12	<.020	.030	7.6
JAN 27...	17	.2	130	74	17	57	.74	<.020	.040	6.0
MAR 31...	5	1.5	50	100	6.0	94	.26	.020	.020	<1.0
MAY 25...	6	1.2	170	126	15	111	.60	.020	.060	5.0
JUN 29...	9	.6	490	124	9.0	115	.39	.090	.060	1.0
JUL 28...	23	1.6	490	112	16	96	.62	.040	.100	--
SEP 29...	7	1.6	230	126	6.0	120	.27	.020	.050	2.0

03567340 WEST CHICKAMAUGA CREEK NEAR LAKEVIEW, GA.

LOCATION.--Lat 34°57'26", long 85°12'20", Catoosa County, Hydrologic Unit 06020001, at Dyer Bridge on Cloud Springs Road, 3 mi (4.8 km) southeast of Lakeview.
DRAINAGE AREA.--148 mi2 (383 km2).
PERIOD OF RECORD.--August 1974 to current year.
REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE (DEG C)	TEMPERATURE, AIR (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT										
27...	1600	75	337	330	7.7	7.3	13.0	15.5	5.3	--
NOV										
23...	1600	50	--	360	7.5	7.7	8.0	12.0	7.1	61
DEC										
29...	1630	245	--	230	7.6	7.9	9.0	7.0	9.7	85
JAN										
27...	1710	377	--	205	7.9	7.6	6.5	7.5	10.6	87
FEB										
24...	1630	215	--	215	7.3	7.7	12.5	25.5	9.3	89
MAR										
31...	1645	120	--	242	8.1	7.9	15.0	25.5	10.3	93
APR										
29...	0630	300	210	--	7.5	7.8	15.0	12.0	7.4	75
MAY										
25...	1530	90	200	197	7.6	7.6	21.5	24.0	7.0	80
JUN										
29...	0715	78	275	286	7.5	7.7	23.0	21.0	5.6	67
JUL										
28...	1545	55	215	221	7.6	7.8	26.0	34.0	5.3	65
AUG										
24...	1430	60	--	293	7.5	7.7	23.0	27.0	4.0	48
SEP										
28...	1530	58	330	348	7.6	7.7	18.0	26.0	4.7	51

DATE	TURBIDITY (JTU)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	HARDNESS (MG/L AS CACO3)	HARDNESS NONCARBONATE (MG/L AS CACO3)	ALKALINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)
OCT								
27...	10	--	1.3	750	132	.00	156	13
NOV								
23...	10	--	2.5	230	124	.00	157	10
DEC								
29...	10	--	1.7	--	106	6.0	100	21
JAN								
27...	19	--	.8	130	100	17	83	24
FEB								
24...	13	--	.9	790	108	11	97	25
MAR								
31...	7	--	1.3	50	110	.00	111	13
APR								
29...	14	--	1.6	940	99	4.0	95	19
MAY								
25...	10	--	1.5	230	100	4.0	96	36
JUN								
29...	13	--	1.6	330	114	.00	129	28
JUL								
28...	14	14	.8	150	106	2.0	104	19
AUG								
24...	15	16	1.6	490	114	.00	136	15
SEP								
28...	10	22	2.4	330	122	.00	149	17

03567340 WEST CHICKAMAUGA CREEK NEAR LAKEVIEW, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT					
27...	.28	.030	--	1.10	14
NOV					
23...	.36	.040	--	1.01	22
DEC					
29...	.82	.080	--	.100	2.0
JAN					
27...	.84	.040	--	.110	18
FEB					
24...	.72	.040	--	.180	<1.0
MAR					
31...	.62	.030	--	.130	3.0
APR					
29...	.46	.120	--	.180	--
MAY					
25...	.75	.040	--	.160	4.0
JUN					
29...	.44	.050	--	.520	5.5
JUL					
28...	.59	.040	.50	.260	--
AUG					
24...	.56	.060	.70	.600	3.0
SEP					
28...	1.1	.070	.70	1.64	8.0

03568933 LOOKOUT CREEK NEAR NEW ENGLAND, GA.

LOCATION.--Lat 34°53'51", long 85°27'47", Dade County, Hydrologic Unit 06020001, at bridge on county road, 0.5 mi (0.8 km) downstream of Squirrel Town Creek, 2.2 mi (3.5 km) southeast of New England, and at mile 16.3 (26.2 km).

DRAINAGE AREA.--149 mi^2 (386 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1979 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 670 ft (204 m), from topographic map.

REMARKS.--Records good except those of no gage-height record, Oct. 29 to Dec. 7, Dec. 24 to Jan. 20, Jan. 24 to Mar. 3, and May 17-26, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,000 ft^3/s (566 m^3/s) Aug. 17, 1982, gage height, 20.73 ft (6.319 m); minimum daily discharge, 16 ft^3/s (0.45 m^3/s) Sept. 29 to Oct. 3, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,000 ft^3/s (85.0 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 3	unknown	7790	221	15.76	4.804	Aug. 17	0945	*20000	556	20.73	6.319
Jan. 21	1145	3250	92.0	13.13	4.002						

Minimum discharge, 16 ft^3/s (0.45 m^3/s) Oct. 1-3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	18	800	900	400	800	126	236	121	63	76	58
2	16	18	360	550	800	620	119	208	84	50	62	62
3	16	18	260	5000	1800	525	118	182	70	43	54	118
4	17	18	210	4000	1200	450	116	159	66	40	49	78
5	17	21	160	2000	800	391	117	143	87	39	44	64
6	17	25	130	900	500	360	121	127	73	36	43	57
7	17	21	110	600	350	899	110	122	63	34	40	52
8	17	19	99	500	320	698	117	232	57	33	38	49
9	17	19	88	420	800	562	147	168	54	33	78	45
10	19	19	79	370	750	487	132	138	51	39	101	43
11	19	19	72	320	450	426	123	123	49	38	121	43
12	18	18	66	270	330	373	119	110	53	35	76	42
13	18	18	62	250	280	330	116	101	53	32	60	41
14	17	18	218	230	250	292	158	92	49	30	52	40
15	17	18	256	210	220	847	183	87	45	30	47	38
16	17	18	177	190	600	853	148	82	44	33	44	36
17	17	17	151	160	900	617	305	79	48	82	10100	35
18	19	17	135	140	500	546	513	78	44	73	1190	33
19	19	17	115	130	400	474	379	73	41	62	491	32
20	18	19	101	190	320	418	357	70	39	91	338	32
21	19	18	95	2560	270	365	317	67	38	58	243	30
22	18	18	113	1270	240	315	282	90	37	120	178	29
23	20	18	182	2180	210	273	243	110	38	150	147	28
24	19	19	245	1600	190	246	217	90	35	79	167	28
25	22	21	750	700	200	221	320	84	34	87	118	40
26	27	19	470	450	400	197	649	76	34	65	96	57
27	32	85	310	320	1600	173	497	70	36	64	83	41
28	28	240	220	260	1300	158	402	66	38	54	89	37
29	22	90	180	230	---	145	329	62	44	91	74	34
30	20	150	160	210	---	137	277	59	60	59	66	33
31	19	---	700	300	---	134	---	288	---	94	60	---
TOTAL	594	1053	7074	27410	16380	13332	7157	3672	1585	1837	14425	1355
MEAN	19.2	35.1	228	884	585	430	239	118	52.8	59.3	465	45.2
MAX	32	240	800	5000	1800	899	649	288	121	150	10100	118
MIN	16	17	62	130	190	134	110	59	34	30	38	28
CFSM	.13	.24	1.53	5.93	3.93	2.89	1.60	.79	.35	.40	3.12	.30
IN.	.15	.26	1.77	6.84	4.09	3.33	1.79	.92	.40	.46	3.60	.34

CAL YR 1981 TOTAL 49925 MEAN 137 MAX 2270 MIN 16 CFSM .92 IN 12.46
WTR YR 1982 TOTAL 95874 MEAN 263 MAX 10100 MIN 16 CFSM 1.77 IN 23.94

03568933 LOOKOUT CREEK NEAR NEW ENGLAND, GA.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1979 to October 1981 (discontinued).
PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: November 1980 to current year.
INSTRUMENTATION.--Water temperature recorder since November 1980.
REMARKS.--No daily water temperature record Dec. 9 to Jan. 20, Apr. 12 to May 25.
EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 26.5°C July 15, 16, 1981; minimum, 0.5°C Jan. 13, 1981.
EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 25.0°C July 5-7, 9-10, 15, Aug. 9; minimum recorded, 6.0°C Jan. 21.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	19.0	16.0	16.0	14.5	11.5	10.0	---	---	10.5	9.5	11.0	9.5
2	18.0	16.0	16.5	15.0	11.0	10.5	---	---	9.5	9.0	11.0	9.0
3	16.0	14.5	16.5	14.5	10.5	9.5	---	---	10.0	9.0	11.5	10.0
4	15.5	13.5	17.0	15.0	10.0	9.0	---	---	10.0	9.0	12.5	11.0
5	16.0	14.0	16.5	15.5	9.0	8.5	---	---	10.0	9.0	13.0	12.0
6	17.5	15.0	15.5	13.5	8.5	7.5	---	---	10.0	9.0	12.0	10.5
7	17.0	15.5	14.0	12.5	8.5	7.0	---	---	8.5	7.0	10.5	9.0
8	16.5	14.5	13.0	11.0	10.0	8.5	---	---	8.5	7.0	9.5	8.0
9	15.0	14.5	13.0	11.0	---	---	---	---	10.0	9.0	11.0	8.5
10	15.5	14.5	12.5	10.5	---	---	---	---	9.5	8.0	12.0	9.5
11	16.0	15.0	12.0	10.0	---	---	---	---	10.0	8.0	12.5	10.5
12	17.0	15.5	11.5	9.5	---	---	---	---	9.0	8.5	14.0	11.0
13	17.0	15.5	11.0	9.0	---	---	---	---	9.5	8.5	13.5	13.0
14	16.5	15.0	11.0	8.5	---	---	---	---	9.5	7.5	13.0	11.5
15	16.5	15.5	10.5	8.5	---	---	---	---	10.0	9.0	13.0	11.5
16	17.5	15.5	10.5	9.5	---	---	---	---	12.0	10.0	15.0	13.0
17	18.0	16.0	12.0	10.0	---	---	---	---	12.0	11.0	14.5	13.0
18	18.0	16.0	11.0	9.0	---	---	---	---	12.5	11.5	16.0	13.5
19	16.0	14.0	12.0	9.5	---	---	---	---	12.5	11.5	16.5	14.0
20	14.5	12.0	11.5	9.5	---	---	---	---	12.0	10.0	17.0	15.0
21	14.0	11.5	9.5	8.0	---	---	10.0	6.0	12.5	10.5	16.0	14.5
22	14.0	13.0	8.5	7.0	---	---	10.5	10.0	11.5	10.0	15.0	13.0
23	14.0	13.0	7.5	6.5	---	---	10.0	9.0	12.0	9.5	14.0	12.0
24	13.0	11.5	8.0	7.5	---	---	9.0	8.0	13.5	11.0	14.5	12.5
25	12.0	11.5	9.0	7.0	---	---	9.0	8.0	13.0	10.5	15.5	13.5
26	13.0	12.0	9.5	7.0	---	---	8.5	7.5	10.5	8.0	14.0	12.0
27	13.5	12.5	12.5	9.5	---	---	8.0	6.5	8.5	7.5	12.5	10.5
28	14.0	12.0	13.0	11.5	---	---	8.5	7.5	9.5	8.5	12.5	9.5
29	15.0	13.0	11.5	10.5	---	---	9.5	7.5	---	---	11.5	10.0
30	15.5	13.5	10.0	9.5	---	---	10.5	9.0	---	---	14.5	11.0
31	15.5	14.0	---	---	---	---	12.0	10.5	---	---	16.0	13.5
MONTH	19.0	11.5	17.0	6.5	11.5	7.0	12.0	6.0	13.5	7.0	17.0	8.0

03568933 LOOKOUT CREEK NEAR NEW ENGLAND, GA.—Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	17.0	14.0	---	---	21.0	20.0	23.5	21.5	23.5	22.0	23.0	22.0
2	16.0	14.5	---	---	20.5	18.5	23.0	22.0	23.0	21.5	23.0	22.0
3	16.5	14.5	---	---	20.5	19.0	24.0	22.0	23.0	22.0	23.0	22.0
4	15.5	13.5	---	---	20.0	19.0	24.5	23.0	24.0	22.5	22.0	20.5
5	14.5	13.5	---	---	21.0	19.5	25.0	23.0	23.5	23.0	21.5	20.0
6	13.5	11.5	---	---	20.5	18.5	25.0	23.5	24.5	23.0	21.5	20.0
7	12.0	10.0	---	---	20.0	19.0	25.0	23.5	24.0	23.0	21.0	20.0
8	11.5	10.0	---	---	21.0	19.5	24.5	23.5	24.5	23.0	21.5	20.0
9	13.0	10.0	---	---	21.5	20.0	25.0	23.0	25.0	23.5	21.5	20.0
10	13.5	10.0	---	---	22.5	21.0	25.0	23.5	24.0	22.5	21.5	21.0
11	14.5	10.5	---	---	22.0	20.5	24.0	23.0	23.0	22.0	21.0	21.0
12	---	---	---	---	21.0	20.5	24.5	23.0	22.5	21.5	21.5	20.5
13	---	---	---	---	21.5	20.5	24.0	22.5	22.5	21.5	22.5	21.0
14	---	---	---	---	21.5	19.5	24.5	22.5	23.0	21.0	23.0	21.5
15	---	---	---	---	21.5	20.0	25.0	23.0	23.0	22.0	23.5	22.0
16	---	---	---	---	21.5	20.5	24.5	23.5	22.5	22.0	24.0	22.5
17	---	---	---	---	22.0	20.5	24.5	23.5	22.0	19.5	23.5	22.0
18	---	---	---	---	22.0	20.5	23.5	22.5	20.5	19.0	23.5	22.0
19	---	---	---	---	22.0	20.5	23.0	22.5	20.5	19.0	23.0	22.0
20	---	---	---	---	22.5	21.0	22.5	22.0	21.0	19.0	22.0	21.0
21	---	---	---	---	22.5	20.5	23.0	21.0	20.5	19.5	20.5	19.0
22	---	---	---	---	22.0	21.0	23.5	22.5	20.5	18.5	19.0	17.5
23	---	---	---	---	22.5	21.0	23.5	22.0	20.5	18.5	18.5	16.5
24	---	---	---	---	22.5	20.5	22.5	21.5	21.0	20.0	18.0	16.5
25	---	---	---	---	22.5	20.5	23.0	21.5	21.0	20.0	18.0	17.0
26	---	---	21.0	20.0	23.0	22.0	23.5	21.5	21.5	19.5	18.0	17.0
27	---	---	21.5	20.0	22.0	21.5	24.0	23.0	21.5	20.5	18.5	17.5
28	---	---	22.0	21.0	23.0	21.5	24.0	23.5	22.5	21.0	19.0	17.5
29	---	---	22.5	21.5	23.5	22.0	24.0	23.0	22.0	21.0	19.5	17.5
30	---	---	23.0	21.5	23.0	22.5	23.5	23.0	22.0	21.5	19.5	18.0
31	---	---	22.5	20.5	---	---	23.5	22.5	22.5	21.5	---	---
MONTH	17.0	10.0	23.0	20.0	23.5	18.5	25.0	21.0	25.0	18.5	24.0	16.5
YEAR	25.0	6.0										

LAKES IN TENNESSEE RIVER BASIN

03553000 NOTTELY LAKE.--Lat 34°57'29", long 84°05'22", Union County, Hydrologic Unit 06020002, at dam on Nottely River, 1.3 mi (2.1 km) upstream from Dooley Creek, 1.7 mi (2.7 km) southwest of Ivylog, 2.5 mi (4.0 km) upstream from Georgia-North Carolina State line, and at mile 21.0 (33.8 km). DRAINAGE AREA, 214 mi^2 (554 km^2). PERIOD OF RECORD, January 1942 to current year. GAGE, water-stage recorder. Datum of gage is at National Geodetic Vertical Datum of 1929.

Lake is formed by rock and rolled earthfill dam with side channel spillway equipped with flashboards. Storage began Jan. 24, 1942; water in lake first reached minimum pool elevation Jan. 26, 1942. Total capacity at elevation 1,780.00 ft (542.54 m), top of flashboards, is 87,900 ft^3/s-days (215.1 hm^3), of which 59,100 ft^3/s-days (144.6 hm^3) is controlled storage above elevation 1,735.00 ft (528.83 m), normal minimum pool. Lake is used for navigation, flood control, and power. Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 94,100 ft^3/s-days (230.3 hm^3) Apr. 20, 1943, elevation, 1,780.50 ft (542.696 m); maximum elevation, 1,781.47 ft (542.992 m) May 28, 1973; minimum (after first filling), 200 ft^3/s-days (0.489 hm^3) Oct. 6, 1947, elevation, 1,638.6 ft (499.44 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 69,200 ft^3/s-days (169.3 hm^3) June 7, elevation, 1,770.20 ft (539.557 m); minimum, 39,100 ft^3/s-days (95.7 hm^3) Dec. 21, elevation, 1,746.68 ft (532.338 m).

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

Date	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)	Change in contents (equivalent in cubic feet per second)
Sept. 30................	1757.00	50300	-	-
Oct. 31................	1758.34	52000	+1700	+55
Nov. 30................	1752.59	45200	-6800	-227
Dec. 31................	1747.43	39800	-5400	-174
CAL YR 1981	-	-	-1300	-4
Jan. 31................	1751.84	44400	+4600	+148
Feb. 28................	1754.76	47700	+3300	+118
Mar. 31................	1758.30	52000	+4300	+139
Apr. 30................	1764.48	60300	+8300	+277
May 31................	1769.59	68200	+7900	+255
June 30................	1769.36	67900	-300	-10
July 31................	1767.50	64900	-3000	-97
Aug. 31................	1762.32	58000	-6900	-223
Sept. 30................	1756.61	49900	-8100	-270
WTR YR 1982	-	-	-400	-1

03558500 BLUE RIDGE LAKE.--Lat 34°52'52", long 84°16'49", Fannin County, Hydrologic Unit 06020003, 400 ft (122 m) upstream from Blue Ridge Dam on Toccoa River, 2.5 mi (4.0 km) northeast of Blue Ridge, and at mile 53.0 (85.3 km). DRAINAGE AREA, 232 mi^2 (601 km^2). PERIOD OF RECORD, December 1930 to current year (prior to Aug. 16, 1939, only midnight readings available). GAGE, water-stage recorder. Datum of gage is at Tennessee Electric Power Co. datum; to convert to National Geodetic Vertical Datum of 1929, subtract 0.18 ft (0.055 m) from elevations given herein.

Lake is formed by earth dam. Spillway equipped with five taintor gates 15 ft (4.57 m) high by 22 ft (6.71 m) wide. Dam completed and storage began Dec. 6, 1930. Total capacity at elevation 1,691.00 ft (515.42 m), top of gates, is 98,800 ft^3/s-days (241.8 hm^3), of which 92,800 ft^3/s-days (227.1 hm^3) is controlled storage above 1,590.00 ft (484.63 m), normal minimum pool. Lake is used for power and recreation. Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD: Maximum contents recorded, 102,100 ft^3/s-days (249.8 hm^3) Feb. 11, 1946, elevation, 1,691.54 ft (515.581 m); minimum (after first filling), 6,500 ft^3/s-days (15.91 hm^3) Jan. 16, 1956, elevation, 1,587.75 ft (483.95 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 94,500 ft^3/s-days (231.2 hm^3) May 24, elevation, 1,688.16 ft (514.551 m); minimum, 14,600 ft^3/s-days (35.7 hm^3) Oct. 16, elevation, 1,611.06 ft (491.051 m).

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

Date	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)	Change in contents (equivalent in cubic feet per second)
Sept. 30................	1618.75	18800	-	-
Oct. 31................	1616.41	17400	-1400	-47
Nov. 30................	1622.48	21000	+3600	-120
Dec. 31................	1632.65	28100	+7100	+229
CAL YR 1981	-	-	-13300	-36
Jan. 31................	1653.94	47600	+19500	+629
Feb. 28................	1677.38	77200	+29600	+1057
Mar. 31................	1683.25	86400	+9200	+297
Apr. 30................	1686.00	91000	+4600	+153
May 31................	1686.57	91900	+900	+29
June 30................	1682.67	85400	-6500	-217
July 31................	1679.71	80700	-4700	-152
Aug. 31................	1673.78	72000	-8700	-281
Sept. 30................	1664.30	59500	-12500	-417
WTR YR 1982	-	-	+40700	+112

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are useable in low-flow or floodflow analyses, depending on the type of data collected. In addition, discharge measurements and peak flow determinations are made at other sites not included in the partial-record program. These data are generally obtained for droughts or floods to give better areal coverage to those events.

Low-flow partial-record stations

Measurements of streamflow made at low-flow partial-record stations located in the area covered by this report are given in the following table. These measurements were made during periods of base flow when streamflow is primarily from ground-water storage. These measurements when correlated with the discharge of a nearby stream with known low-flow characteristics (usually a continuous-record station) will indicate the low-flow potentiality of the stream. The column headed "period of record" indicates the water years in which measurements were made at the site.

Discharge measurements made at low-flow partial-record stations during water year 1982

					Measurements	
Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Date	Discharge (ft^3/s)
		Savannah River Basin				
02193240	South Fork Little River near Crawfordville, Ga.	Lat 33°37'15", long 82°55'10", Taliaferro County, Hydrologic Unit 03060105, at State Highway 22, 4 miles north of Crawfordville.	45.7	1951-53, 1979-80 1982	10-23-81	1.0
02197030	Spirit Creek near Hephzibah, Ga.	Lat 33°20'35", long 82°04'35", Richmond County, Hydrologic Unit 03060106, at Windsor Spring Road, 3 miles north of Hephzibah.	50.3	1943, 1955, 1980, 1982	10-22-81	32
02198170	Beaverdam Creek near Sylvania, Ga.	Lat 32°49'15", long 81°37'24", Screven County, Hydrologic Unit 03060108, at State Highway 24, 5 miles north of Sylvania.	116	1979-80, 1982	10-22-81	.58
		Ogeechee River Basin				
02200360	Beechtree Creek near Gibson, Ga.	Lat 33°14'40", long 82°34'25", Glascock County, Hydrologic Unit 03060201, at county road, 1 mile east of Gibson.	7.21	1979-80, 1982	10-23-81	.82
02200380	Joes Creek near Mitchell, Ga.	Lat 33°14'17", long 82°40'22", Glascock County, Hydrologic Unit 03060201, at county road, 2 miles east of Mitchell.	9.26	1979-80, 1982	10-23-81	.42
02200430	Duhart Creek near Louisville, Ga.	Lat 33°06'32", long 82°29'29", Jefferson County, Hydrologic Unit 03060201, at county road, 5 miles northwest of Louisville.	31.0	1979-80, 1982	10-21-81	14
02200810	Big Creek near Louisville, Ga.	Lat 33°02'55", long 82°21'30", Jefferson County, Hydrologic Unit 03060201, at county road, 4 miles northeast of Louisville.	56.9	1943-44, 1953, 1955, 1979-80, 1982	10-21-81	17
02202240	Ogeechee Creek at Oliver, Ga.	Lat 32°31'28", long 81°32'23", Screven County, Hydrologic Unit 03060202, at State Highway 17, at Oliver.	141	1954, 1979, 1982	10-22-81	.07
		Altamaha River Basin				
02204130	Honey Creek near Conyers, Ga.	Lat 33°34'47", long 84°03'51", Rockdale County, Hydrologic Unit 03070103, at State Highway 212, 6 miles southwest of Conyers.	26.0	1979-80, 1982	10-21-81	3.8
02204780	Snapping Shoals Creek near Porterdale, Ga.	Lat 33°29'25", long 83°57'19", Newton County, Hydrologic Unit 03070103, at State Highway 81, 8 miles south of Porterdale.	39.2	1979-80, 1982	10-21-81	6.6
02208490	Cornish Creek near Covington, Ga.	Lat 33°38'30", long 83°47'55", Newton County, Hydrologic Unit 03070103, at county road, 5 miles northeast of Covington.	28.3	1979-80, 1982	10-21-81	2.7
02209390	Bear Creek near Stewart, Ga.	Lat 33°26'45", long 83°48'46", Newton County, Hydrologic Unit 03070103, at county road, 3 miles northeast of Stewart.	27.0	1974, 1979-80, 1982	10-21-81	2.9

Low-flow partial-record stations--Continued

Altamaha River Basin--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Measurements Date	Measurements Discharge (ft^3/s)
02209750	Tussahaw Creek near Jackson, Ga.	Lat 33°22'43", long 83°57'49", Butts County, Hydrologic Unit 03070103, at county road, 6 miles north of Jackson.	59.2	1955, 1974, 1977, 1979-80, 1982	10-22-81	5.3
02210640	Yellow Water Creek near Jackson, Ga.	Lat 33°18'42", long 83°59'00", Butts County, Hydrologic Unit 03070103, at State Highway 42, 1 mile northwest of Jackson.	5.25	1965, 1979-80, 1982	10-22-81	.05
02211270	Troublesome Creek near Griffin, Ga.	Lat 33°18'33", long 84°11'22", Spalding County, Hydrologic Unit 03070103, at State Highway 155, 7 miles northeast of Griffin.	16.9	1954, 1977, 1979-80, 1982	10-22-81	2.4
02211285	Indian Creek near Locust Grove, Ga.	Lat 33°21'02", long 84°08'28", Henry County, Hydrologic Unit 03070103, at county road, 1 mile west of Locust Grove.	15.2	1951, 1953-54, 1977, 1979-80, 1982	10-22-81	.82
02211440	Buck Creek near Orchard Hill, Ga.	Lat 33°12'21", long 84°07'46", Spalding County, Hydrologic Unit 03070103, at county road, 5 miles east of Orchard Hill.	16.7	1977, 1979-80, 1982	10-22-81	.86
02211470	Edie Creek near Milner, Ga.	Lat 33°08'39", long 84°08'45", Lamar County, Hydrologic Unit 03070103, at county road, 4 miles northeast of Milner.	7.70	1951, 1953-54, 1979-80, 1982	10-22-81	.20
02217542	Barber Creek near Eastville, Ga.	Lat 33°53'32", long 83°30'13", Oconee County, Hydrologic Unit 03070101, at county road, 1 mile north of Eastville.	26.5	1979-80, 1982	10-21-81	4.3
02217550	McNutt Creek near Watkinsville, Ga.	Lat 33°54'34", long 83°24'03", Oconee-Clarke County line, Hydrologic Unit 03070101, at U.S. Highway 441, 3 miles north of Watkinsville.	54.1	1975, 1979-80, 1982	10-21-81	6.7
02219250	Hard Labor Creek near Madison, Ga.	Lat 33°38'15", long 83°29'24", Morgan County, Hydrologic Unit 03070101, at State Highway 83, 4 miles north of Madison.	76.0	1967, 1979-80, 1982	10-22-81	9.1
02220260	Richland Creek near Greensboro, Ga.	Lat 33°36'33", long 83°09'44", Greene County, Hydrologic Unit 03070101, at county road, 2 miles north of Greensboro.	12.4	1956, 1979-80, 1982	10-22-81	.11
02220690	Crooked Creek near Eatonton, Ga.	Lat 33°19'20", long 83°16'32", Putnam County, Hydrologic Unit 03070101, at county road, 7 miles east of Eatonton.	25.8	1974, 1979-80, 1982	10-23-81	.95
02220850	Big Indian Creek near Madison, Ga.	Lat 33°31'32", long 83°31'28", Morgan County, Hydrologic Unit 03070101, at State Highway 83, 6 miles southwest of Madison.	30.2	1943, 1951-54, 1979-80, 1982	10-22-81	3.1
02221660	Cedar Creek near Monticello, Ga.	Lat 33°12'42", long 83°36'05", Jasper County, Hydrologic Unit 03070101, at county road, 9 miles southeast of Monticello.	20.1	1979-80, 1982	10-22-81	.57
02223050	Town Creek near Milledgeville, Ga.	Lat 32°59'30", long 83°04'25", Baldwin County, Hydrologic Unit 03070102, at State Highway 24, 11 miles southeast of Milledgeville.	58.9	1943, 1955, 1979-80, 1982	10-21-81	5.2
02223082	Buffalo Creek near Linton, Ga.	Lat 33°06'27", long 82°57'34", Hancock-Washington County line, Hydrologic Unit 03070102, at county road, 1 mile east of Linton.	92.9	1943-44, 1951, 9155, 1979-80, 1982	10-21-81	1.2

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES--Continued

Low-flow partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi²)	Period of record	Measurements	
					Date	Discharge (ft³/s)
		Altamaha River Basin--Continued				
02223100	Buffalo Creek near Sandersville, Ga.	Lat 32°57'43", long 82°57'35", Washington County, Hydrologic Unit 03070102, at State Highway 24, 10 miles west of Sandersville.	248	1959-68, 1970, 1972, 1975, 1979-80, 1982	10-21-81	15
		Apalachicola River Basin				
02331360	Hazel Creek near Clarksville, Ga.	Lat 34°35'09", long 83°31'07", Habersham County, Hydrologic Unit 03130001, at county road 1 mile south of Clarksville.	16.8	1955, 1979-81, 1982	10-23-81	6.0
02333310	Tesnatee Creek near Cleveland, Ga.	Lat 34°35'44", long 83°46'41", White County, Hydrologic Unit 03130001, at U.S. Highway 129, 1 mile north of Cleveland.	9.89	1953 1955, 1979-81, 1982	10-22-81	4.8
02333800	Cane Creek at Dahlonega, Ga.	Lat 34°31'44", long 84°00'25", Lumpkin County, Hydrologic Unit 03130001, at U.S. Highway 19 at Dahlonega.	21.9	1951, 1953, 1955, 1979-82	10-22-81	9.8
02335560	Bentley Creek near Cumming, Ga.	Lat 34°10'43", long 84°13'16", Forsyth County, Hydrologic Unit 03130001, at State Highway 371, 5 miles southwest of Cumming.	8.56	1955, 1980-82	10-21-81	1.8
02336860	Gothards Creek near Douglasville, Ga.	Lat 33°47'16", long 84°45'01", Paulding County, Hydrologic Unit 03130002, at State Highway 92, 4 miles north of Douglasville.	13.0	1953-54, 1979-80, 1982	10-22-81	.56
02338530	Hillabahatchee Creek near Franklin, Ga.	Lat 33°16'50", long 85°07'10", Heard County, Hydrologic Unit 03130002, at State Highway 34, 1 mile west of Franklin.	77.3	1951, 1953, 1979-80, 1982	10-21-81	20
02338930	Beech Creek near LaGrange, Ga.	Lat 33°05'32", long 84°59'02", Troup County, Hydrologic Unit 03130002, at county road 3 miles north of LaGrange.	52.9	1952, 1955, 1979-80, 1982	10-22-81	8.1
02339840	Flat Shoal Creek near West Point, Ga.	Lat 32°50'12", long 85°06'57", Harris County, Hydrologic Unit 03130002, at State Highway 103, 3 miles southeast of West Point.	211	1974, 1979-80, 1982	10-22-81	31
02344480	Shoal Creek near Griffin, Ga.	Lat 33°15'33", long 84°23'18", Spalding County, Hydrologic Unit 03130005, at county road 4.5 miles west of Griffin.	20.5	1953-55, 1977, 1979-80, 1982	10-21-81	3.2
02344620	Shoal Creek near Sharpsburg, Ga.	Lat 33°23'21", long 84°37'24", Coweta County, Hydrologic Unit 03130005, at State Highway 54, 4 miles north of Sharpsburg.	24.1	1943, 1953-54, 1979-80, 1982	10-22-81	1.4
02344752	Line Creek above Haralson, Ga.	Lat 33°15'23", long 84°29'50", Coweta-Spalding County line, Hydrologic Unit 03130005, at State Highway 16, 3 miles east of Senoia.	216	1951, 1977, 1979-80, 1982	10-21-81	12
02344887	Red Oak Creek near Greenville, Ga.	Lat 33°06'13", long 84°39'59", Meriwether County, Hydrologic Unit 03130005, at State Highway 362, 5 miles northeast of Greenville.	41.4	1979-80, 1982	10-21-81	7.1
02350527	Mill Creek near Albany, Ga.	Lat 31°40'04", long 83°59'48", Worth County, Hydrologic Unit 03130006, at State Highway 257, 10 miles northeast of Albany.	44.0	1979-82	8-24-82	28

Low-flow partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi2)	Period of record	Measurements	
					Date	Discharge (ft3/s)
		Mobile River Basin				
02379980	Rock Creek at Cherry Log, Ga.	Lat 34°46'46", long 84°23'32", Gilmer County, Hydrologic Unit 03150102, at State Highway 5, at Cherry Log.	10.7	1951, 1955, 1979-80, 1982	10-21-81	5.4
02381570	Talking Rock Creek at Talking Rock, Ga.	Lat 34°30'40", long 84°30'31", Pickens County, Hydrologic Unit 03150102, at county road, at Talking Rock.	16.6	1955, 1979-80, 1982	10-22-81	4.1
02382838	Salacoa Creek at Fairmount, Ga.	Lat 34°25'07", long 84°41'55", Gordon County, Hydrologic Unit 03150102, at U.S. Highway 411, 1 mile south of Fairmount.	44.1	1980-82	10-22-81	1.3
02385250	Coahulla Creek near Dalton, Ga.	Lat 34°46'46", long 84°53'47", Whitfield County, Hydrologic Unit 03150101, at U.S. Highway 76, 3 miles east of Dalton.	119	1979-80, 1982	10-23-81	27
02386840	Swamp Creek near Dalton, Ga.	Lat 34°40'24", long 84°58'57", Whitfield County, Hydrologic Unit 03150101, at U.S. Highway 41, 5 miles south of Dalton.	12.3	1959, 1966, 1979-80, 1982	10-22-81	1.2
02388900	Etowah River near Dahlonega, Ga.	Lat 34°30'53", long 84°03'37", Lumpkin County, Hydrologic Unit 03150104, at State Highway 9, 4 miles west of Dahlonega.	69.7	1951, 1953, 1955, 1959, 1979-82	10-22-81	52
02390140	Settingdown Creek near Ball Ground, Ga.	Lat 34°17'35", long 84°15'49", Cherokee County, Hydrologic Unit 03150104, at State Highway 369, 8 miles southeast of Ball Ground.	49.3	1955, 1959, 1980-82	10-21-81	11
02393020	Noonday Creek near Woodstock, Ga.	Lat 34°06'25", long 84°32'50", Cherokee County, Hydrologic Unit 03150104, 1.7 miles west of Woodstock.	47.9	1974, 1980-82	10-21-81	10

Discharge measurements made at miscellaneous sites

The following table contains discharge measurements made at sites that are not currently operated as a continuous-record gaging station or low-flow partial-record station. The measurements made at discontinued gaging stations are primarily used as index discharges to low-flow partial-record stations for correlation purposes. These measurements were made during periods of base flow.

Discharge measurements made at miscellaneous sites during water year 1982

Station No.	Station name	Location	Drainage area (mi²)	Period of record	Measurements	
					Date	Discharge (ft³/s)
		Altamaha River Basin				
02211300	Towaliga River near Jackson, Ga.	Lat 33°15'50", long 84°04'17", Butts County, Hydrologic Unit 03070103, at State Highway 16, 6.5 miles west of Jackson.	a105	1960-71†, 1973, 1977, 1979-80, 1982	10-22-81	1.8
02219030	Jacks Creek at Monroe, Ga.	Lat 33°48'35", long 83°41'13", Walton County, Hydrologic Unit 03070101, at U.S. Highway 78, at Monroe.	6.68	1943, 1953-54, 1982	10-21-81	1.0
02221000	Murder Creek near Monticello, Ga.	Lat 33°24'56", long 83°39'43", Jasper County, Hydrologic Unit 03070101, at State Highway 229, 8 miles north of Monticello.	a24	1952-71†, 1972, 1979-80, 1982	10-22-81	2.2
		Suwannee River Basin				
02316750	Alapaha River near Stockton, Ga.	Lat 30°55'27", long 83°02'15", Lanier-Lowndes County line, Hydrologic Unit 03110202, at U.S. Highway 84, 2 miles west of Stockton.	1,270	1947, 1954, 1982	10-21-81	16
		Apalachicola River Basin				
02331000	Chattahoochee River near Leaf, Ga.	Lat 34°34'37", long 83°38'09", Habersham County, Hydrologic Unit 03130001, at State Highway 115, 1.5 miles east of Leaf.	150	1940-71†, 1979-82	10-18-81 10-22-81	107 102
02340500	Mountain Oak Creek near Hamilton, Ga.	Lat 32°44'28", long 85°04'08", Harris County, Hydrologic Unit 03130002, at State Highway 103, 11 miles west of Hamilton.	61.7	1944-71†, 1979-80, 1982	10-22-81	5.3
02344920	Kendall Creek near Greenville, Ga.	Lat 32°59'33", long 84°42'28", Meriwether County, Hydrologic Unit 03130005, at State Highway 41, 2 miles south of Greenville.	4.20	1953, 1955-56, 1962, 1982	10-22-81	1.1
		Mobile River Basin				
02379500	Cartecay River near Ellijay, Ga.	Lat 34°40'53", long 84°27'20", Gilmer County, Hydrologic Unit 03150102, at State Highway 52, 2 miles southeast of Ellijay.	134	1937-76†, 1979-80, 1982	10-21-81	82
02380000	Ellijay River at Ellijay, Ga.	Lat 34°41'06", long 84°28'40", Gilmer County, Hydrologic Unit 03150102, at State Highway 5, at Ellijay.	87.7	1954-69†, 1982	10-21-81	46
02382000	Scarecorn Creek at Hinton, Ga.	Lat 34°28'04", long 84°35'30", Pickens County, Hydrologic Unit 03150102, at State Highway 53, 0.2 mile southwest of Hinton.	21.3	1939-42†, 1959-74†, 1980-82	10-22-81	2.9
02383000	Rock Creek near Fairmount, Ga.	Lat 34°21'32", long 84°46'46", Bartow County, Hydrologic Unit 03150102, at State Highway 140, 7 miles southwest of Fairmount.	6.17	1952-74†, 1979-82	10-22-81	.56
02389000	Etowah River near Dawsonville, Ga.	Lat 34°22'57", long 84°03'21", Dawson County, Hydrologic Unit 03150104, near State Highway 53, 4 miles southeast of Dawsonville.	107	1940-76†, 1979-82	10-21-81	74

† Operated as a continuous-record gaging station.
a Approximately.

Discharge measurements made at miscellaneous sites during water year 1982—Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Measurements	
					Date	Discharge (ft^3/s)
		Mobile River Basin--Continued				
02389300	Shoal Creek near Dawsonville, Ga.	Lat 34°25'25", long 84°08'40", Dawson County, Hydrologic Unit 03150104, near State Highway 53, 1 mile west of Dawsonville.	21.7	1958-71†, 1979-82	10-21-81	11
02390370	Hinton Creek near Jasper, Ga.	Lat 34°29'03", long 84°25'15", Pickens County, Hydrologic Unit 03130104, at State Highway 108, 1 mile north of Jasper.	3.15	1953, 1955, 1982	10-22-81	1.1
02392500	Little River near Roswell, Ga.	Lat 34°07'09", long 84°23'18", Fulton County, Hydrologic Unit 03150104, at State Highway 140, 7 miles north of Roswell.	60.0	1947-76†, 1979-82	10-21-81	11

† Operated as a continuous-record gaging station.

Crest-stage partial-record stations

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain, but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained, but is not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

Annual maximum discharge at crest-stage partial-record stations

					Annual maximum		
Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Date	Gage height (feet)	Discharge (ft^3/s)
		Savannah River Basin					
02191280	Mill Shoal Creek near Royston, Ga.	Lat 34°16'13", long 83°06'08", Hart County, Hydrologic Unit 03060103, at culvert on State Highway 17, 1.2 miles southeast of Royston.	0.32	1964-82	1-4-82	5.96	232
02191300	Broad River above Carlton, Ga. (Prior to 1918 published as near Carlton.)	Lat 34°04'24", long 83°00'12", Madison-Elbert County line, Hydrologic Unit 03060104, at State Highway 72, 2.8 miles northeast of Carlton.	760	1898-1912, 1913-18g, 1920-82g	1-4-82	23.40	19,500
02191930	Buffalo Creek near Lexington, Ga.	Lat 33°46'40", long 83°03'01", Oglethorpe County, Hydrologic Unit 03060104, at culvert on State Highway 22, 7 miles southeast of Lexington.	5.80	1964-82	4-26-82	9.47	1,650
02192300	Hog Fork Fishing Creek tributary near Tignall, Ga.	Lat 33°49'05", long 82°45'21", Wilkes County, Hydrologic Unit 03060104, at culvert on State Highway 17, 4.2 miles south of Tignall.	.097	1959-82	9-1-82	8.11	66
02196570	Raes Creek tributary No. 2 at Augusta, Ga.	Lat 33°30'19", long 82°02'34", Richmond County, Hydrologic Unit 03060106, at culvert on Skinner Mill Road at junction with Boy Scout Road, at Augusta.	.66	1979-82	5-30-82	6.80	159
02196725	Oates Creek at Augusta, Ga.	Lat 33°27'19", long 82°00'23", Richmond County, Hydrologic Unit 03060106, at culvert on White Road at Augusta.	2.13	1979-82	8-18-82	4.45	132
02196760	Rocky Creek tributary at Augusta, Ga.	Lat 33°27'07", long 82°02'57", Richmond County, Hydrologic Unit 03060106, at culvert on U.S. Highways 78 and 278 at Augusta.	1.65	1979-82	5-30-82	5.07	365
02197190	McBean Creek near McBean, Ga.	Lat 33°14'12", long 82°02'38", Richmond-Burke County line, Hydrologic Unit 03060106, at State Highway 21, 5.5 miles west of McBean.	41.4	1963-82	1-1-82	3.92	225
		Ogeechee River Basin					
02200400	Rocky Comfort Creek near Grange, Ga.	Lat 33°06'09", long 82°34'02", Jefferson County, Hydrologic Unit 03060201, at State Highway 88, 1.5 miles northeast of Grange.	188	1979-82	1-2-82	12.06	1,840
02200930	Ogeechee River tributary near Louisville, Ga.	Lat 32°55'20", long 82°18'49", Jefferson County, Hydrologic Unit 03060201, at culvert on State Highway 17, 8.5 miles southeast of Louisville.	14.2	1965-82	1-1-82	2.82	122
02200950	Ogeechee River near Wadley, Ga.	Lat 32°52'11, long 82°19'11", Jefferson County, Hydrologic Unit 03060201, at bridge on State Highway 78, 4.5 miles east of Wadley.	a990	1970-82	1-4-82	11.31	6,380

a Approximately.
g Maximum gage heights computed from graph based on gage readings.

Crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum Date	Annual maximum Gage height (feet)	Annual maximum Discharge (ft^3/s)
		Ogeechee River Basin--Continued					
02201350	Buckhead Creek near Waynesboro, Ga.	Lat 32°58'21", long 82°07'15", Burke County, Hydrologic Unit 03060201, at State Highway 56, 10 miles southwest of Waynesboro.	a64	1963-82	4-1-81 1-2-82	5.22 5.45	c395 525
02201800	Richardson Creek near Millen, Ga.	Lat 32°43'23", long 81°58'35", Jenkins County, Hydrologic Unit 03060202, at State Highway 67, 6 miles south of Millen.	a43	1963-82	4-26-82	3.53	249
02202000	Ogeechee River at Scarboro, Ga.	Lat 32°42'38", long 81°52'46", Jenkins County, Hydrologic Unit 03060202, at abandoned highway bridge at Scarboro, 7.5 miles southeast of Millen.	a1,940	1938-71‡, 1972-82	2-20-81 1-7-82	8.90 9.33	c6,600 8,320
02202865	Canoochee River near Metter, Ga.	Lat 32°31'20", long 82°05'25", Candler County, Hydrologic Unit 03060203, at State Highways 23 and 121, 5 miles south of Metter.	c202	1970-82	6-5-82	9.39	(†)
02202900	Fifteen Mile Creek near Metter, Ga.	Lat 32°23'33", long 82°00'55", Candler County, Hydrologic Unit 03060203, at State Highway 46, 2.5 miles east of Metter.	147	1963-82	4-28-82	4.59	741
02202910	Ten Mile Creek tributary at Pulaski, Ga.	Lat 32°23'18", long 81°58'17", Candler County, Hydrologic Unit 03060203, at culvert on State Highway 46, 0.8 mile west of Pulaski.	1.14	1965-82	6-4-82	4.23	131
02203280	Canoochee River near Daisy, Ga.	Lat 32°08'54", long 81°46'54", Evans County, Hydrologic Unit 03060203, at U.S. Highway 280, 3 miles east of Daisy.	833	1970-82	2-16-82	10.70	3,990
		Altamaha River Basin					
02203800	South River at Atlanta, Ga.	Lat 33°40'46", long 84°18'30", DeKalb County, Hydrologic Unit 03070103, at Bouldercrest Drive at Atlanta.	41.5	1951-82	2-3-82	8.27	3,770
02203835	Shoal Creek near Atlanta, Ga.	Lat 33°44'48", long 84°16'50", DeKalb County, Hydrologic Unit 03070103, at culvert on Line Street near Atlanta.	3.43	1974-82	9-2-82	4.49	648
02203845	Shoal Creek tributary near Atlanta, Ga.	Lat 33°43'05", long 84°15'45", DeKalb County, Hydrologic Unit 03070103, at culvert on Glendale Drive near Atlanta.	.84	1973-78, 1980-82	3-15-82	4.88	427
02203884	Conley Creek near Forest Park, Ga.	Lat 33°38'08", long 84°20'37", Clayton County, Hydrologic Unit 03070103, at culvert on Rock Cut Road near Forest Park.	1.88	1973-78, 1980-82	3-15-82	4.94	497
02204135	Camp Creek tributary near Stockbridge, Ga.	Lat 33°34'35", long 84°08'50", Henry County, Hydrologic Unit 03070103, at culvert on State Highway 155, 5 miles northeast of Stockbridge.	.28	1977-82	7-19-82	5.46	59
02206500	Yellow River near Snellville, Ga.	Lat 33°51'11", long 84°04'45", Gwinnett County, Hydrologic Unit 03070103, on left bank at downstream side of county highway bridge, 3.2 miles west of Snellville.	134	1943-71†, 1973-82	2-3-82	12.14	3,670
02211300	Towaliga River near Jackson, Ga.	Lat 33°15'50", long 84°04'17", Butts County, Hydrologic Unit 03070103, at bridge on State Highway 16, 6.5 miles west of Jackson.	a105	1961-71‡ 1972-82	2-4-82	10.40	2,340

† Discharge not determined.
‡ Operated as a continuous-record gaging station.
a Approximately.
c Revised.

Crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft^3/s)
		Altamaha River Basin--Continued					
02213350	Tobesofkee Creek below Forsyth, Ga.	Lat 32°59'37", long 83°56'41", Monroe County, Hydrologic Unit 03070103, at State Highway 42, 3 miles west of Forsyth.	53.4	1963-72, 1974-82	2-4-82	1.32	2,090
02214280	Savage Creek near Bullard, Ga.	Lat 32°35'34", long 83°28'11", Twiggs County, Hydrologic Unit 03070104, at U.S. Highway 23, 3 miles southeast of Bullard.	33.0	1979-82	2-4-82	10.44	(†)
02214820	Mossy Creek near Perry, Ga.	Lat 32°31'15", long 83°43'23", Houston County, Hydrologic Unit 03070104, at U.S. Highway 41, 4.5 miles north of Perry.	92.9	1979-82	2-4-82	7.12	430
02215245	Folsom Creek tributary near Rochelle, Ga.	Lat 32°00'15", long 83°25'58", Wilcox County, Hydrologic Unit 03070104, at culvert on State Highway 233, 4 miles north of Rochelle.	1.44	1965-82	2-14-82	3.36	138
02217400	Mulberry River tributary near Winder, Ga.	Lat 34°03'53", long 83°39'45", Jackson County, Hydrologic Unit 03070101, at culvert on State Highway 11, 6 miles northeast of Winder.	2.68	1965-82	1-4-82	2.53	290
02217750	North Oconee River tributary at Athens, Ga.	Lat 33°58'11", long 83°23'14", Clarke County, Hydrologic Unit 03070101, at culvert on Barber Street at Athens.	.35	1979-82	8-22-79 5-20-80 9-4-81 5-22-82	6.83 5.19 5.55 4.29	287 186 208 142
02217905	Tanyard Creek at Athens, Ga.	Lat 33°57'05", long 83°22'42", Clarke County, Hydrologic Unit 03070101, at culvert on Baxter Street at Athens.	.56	1979-82	9-1-82	7.38	323
02218450	Town Creek near Greensboro, Ga.	Lat 33°38'29", long 83°13'36", Greene County, Hydrologic Unit 03070101, at State Highway 15, 5 miles northwest of Greensboro.	11.9	1964-82	c6-25-80 2-3-82	c7.40 5.93	c580 336
02223349	Big Sandy Creek tributary near Irwinton, Ga.	Lat 32°48'11", long 83°13'37", Wilkinson County, Hydrologic Unit 03070102, at culvert on county road, 1.7 miles southwest of Irwinton.	a0.50	1978-82	2-3-82	2.52	36
02223360	Big Sandy Creek near Irwinton, Ga.	Lat 32°45'59", long 83°10'05", Wilkinson County, Hydrologic Unit 03070102, at bridge on U.S. Highway 441, 2 miles south of Irwinton.	177	1970-82	2-4-82	5.46	2,140
02225150	Ohoopee River near Wrightsville, Ga.	Lat 32°42'50", long 82°45'20", Johnson County, Hydrologic Unit 03070107, at U.S. Highway 319, 2.5 miles west of Wrightsville.	a55	1963-82	2-4-82	7.34	900
02225250	Little Ohoopee River near Swainsboro, Ga.	Lat 32°33'44", long 82°28'03", Emanuel County, Hydrologic Unit 03070107, at U.S. Highway 80, 9 miles west of Swainsboro.	216	1970, 1972, 1980-82	1-4-82	7.03	2,430
02225320	Ohoopee River near Aline, Ga.	Lat 32°20'53", long 82°14'52", Candler-Emanuel County line, Hydrologic Unit 03070107, at bridge on county road, 5 miles west of Aline.	698	1975, 1980-82	1-7-82	13.35	4,580
02225330	Beaver Creek near Cobbtown, Ga.	Lat 32°16'52", long 82°11'27", Tattnall County, Hydrologic Unit 03070107, at culvert on State Highway 152, 3.2 miles west of Cobbtown.	9.58	1965-82	2-13-82	4.81	318

† Discharge not determined.
a Approximately.
c Revised.

Crest-stage partial-record stations--Continued

					Annual maximum		
Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Date	Gage height (feet)	Discharge (ft^3/s)
Altamaha River Basin--Continued							
02225350	Pendleton Creek tributary No. 2 near Soperton, Ga.	Lat 32°25'35", long 82°29'52", Treutlen County, Hydrologic Unit 03070107, at culvert on State Highway 86, 6.5 miles northeast of Soperton.	1.68	1965-82	1-1-82	2.49	124
02225850	Beards Creek near Glennville, Ga.	Lat 31°55'26", long 81°52'58", Tattnall-Long County line, Hydrologic Unit 03070106, at State Highway 144, 3 miles east of Glennville.	74.4	1966-82	7-12-82	4.72	460
02226030	Doctors Creek near Ludowici, Ga.	Lat 31°44'07", long 81°42'08", Long County, Hydrologic Unit 03070106, at State Highway 38, 3 miles northeast of Ludowici.	a33	1966-82	4-27-82	5.63	203
Satilla River Basin							
02226190	Little Creek (formerly published as 02226150, Satilla River tributary) near Willacoochee, Ga.	Lat 31°27'24", long 83°03'02", Coffee County, Hydrologic Unit 03070201, at culvert on State Highway 149, 8.5 miles north of Willacoochee.	6.38	1965-82	4-25-82	3.33	154
02226465	Dryden Creek near Dixie Union, Ga.	Lat 31°20'23", long 82°28'43", Ware County, Hydrologic Unit 0307201, at culvert on county road, 0.7 mile west of Dixie Union.	14.7	1978-82	3-12-78 9-4-79 3-13-80 2-17-81 7-24-82	5.70 5.57 6.85 4.45 5.82	290 266 640 120 314
02226580	Big Creek near Hoboken, Ga.	Lat 31°10'28", long 82°11'17", Brantley County, Hydrologic Unit 03070201, at State Highway 50, 2.5 miles west of Hoboken.	c60	1966-82	5-1-82	8.51	725
02227000	Hurricane Creek near Alma, Ga.	Lat 31°34'00", long 82°27'50", Bacon County, Hydrologic Unit 03070201, at bridge on U.S. Highway 1, 1.5 miles north of Alma.	c139	1952-71‡, 1972-82	7-27-82	5.74	844
02227290	Alabaha River near Blackshear, Ga.	Lat 31°33'44", long 82°28'03", Pierce County, Hydrologic Unit 03070201, at bridge on State Highways 15 and 121, 3 miles north of Blackshear.	c414	1970-82	7-17-82	12.30	3,330
02227422	Crooked Creek tributary near Bristol, Ga.	Lat 31°26'24", long 82°15'03", Pierce County, Hydrologic Unit 03070202, on county road, 2 miles west of Bristol.	.42	1976-82	7-15-82	2.13	50
02227990	Satilla River tributary No. 2 at Atkinson, Ga.	Lat 31°13'32", long 81°51'10", Brantley County, Hydrologic Unit 03070201, on county road, 0.3 mile north of Atkinson.	.38	1977-82	4-25-82	1.85	80
02228050	Buffalo Creek at Hickox, Ga.	Lat 31°09'22", long 81°59'29", Brantley County, Hydrologic Unit 03070201, at State Highway 23 at Hickox.	a59	1966-82	4-27-82	7.17	(†)
02228055	Satilla River tributary No. 3 near Winokur, Ga.	Lat 30°59'59", long 81°57'30", Charlton County, Hydrologic Unit 03070201, at county road, 5.3 miles southeast of Winokur.	1.91	1980-82	4-25-82	7.08	(†)
Suwannee River basin							
02314700	Suwannoochee Creek near Thelma, Ga.	Lat 30°49'18", long 82°50'28", Clinch-Echols County line, Hydrologic Unit 03110201, at State Highway 187, 1.2 miles west of Thelma.	232	1929, 1963-82	8-2-82	6.10	540

† Discharge not determined.

‡ Operated as a continuous-record gaging station.

a Approximately.

c Revised.

Crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft^3/s)
		Suwannee River basin--Continued					
02316390	Alapaha River at Lakeland, Ga.	Lat 31°02'46", long 83°02'37", Lanier County, Hydrologic Unit 03110202, at bridge on U.S. Highways 129 and 221 at Lakeland.	1,080	1970-82	2-20-82	16.62	4,420
02317710	Withlacoochee River tributary near Nashville, Ga.	Lat 31°11'54", long 83°17'17", Berrien County, Hydrologic Unit 03110202, at culvert on State Highway 76, 2.2 miles southwest of Nashville.	.86	1960-82	4-25-82	1.94	34
02317734	New River near Nashville, Ga.	Lat 31°10'37", long 83°19'20", Berrien-Cook County line, Hydrologic Unit 03110203, at bridge on State Highway 76, 5 miles west of Nashville.	146	1970-82	2-18-82	8.74	1,150
02317775	Daniels Creek near Ashburn, Ga.	Lat 31°40'40", long 83°45'06", Turner County, Hydrologic Unit 03110204, at culvert on State Highway 32, 6.2 miles west of Ashburn.	1.11	1965-82	c9-5-81 4-26-82	1.12 2.55	11 131
02317780	Lime Sink Creek near Sycamore, Ga.	Lat 31°36'20", long 83°40'31", Turner County, Hydrologic Unit 03110204, at culvert on secondary road 1181, 4.5 miles southwest of Sycamore.	.68	1965-82	4-26-82	6.08	252
02317810	Little River tributary No. 2 near Tifton, Ga.	Lat 31°25'30", long 83°34'23", Tift County, Hydrologic Unit 03110304, at culvert on secondary road 546, 4 miles southwest of Tifton.	.47	1965-82	4-26-82	2.49	66
02317870	Warrior Creek near Sumner, Ga.	Lat 31°21'45", long 83°46'11", Worth County, Hydrologic Unit 03110204, at county road, 10.8 miles south of Sumner.	a109	1966-82	4-28-82	11.50	1,020
02318600	Okapilco Creek near Berlin, Ga.	Lat 31°02'48", long 83°37'02", Colquitt County, Hydrologic Unit 03110203, on county road, 1 mile south of Berlin.	101	1963-82	2-5-82	9.13	1,030
02318725	Okapilco Creek at Quitman, Ga.	Lat 30°47'09", long 83°31'34", Brooks County, Hydrologic Unit 03110203, at U.S. Highway 84 at Quitman.	278	1970-73, 1978-82	2-8-82		1,400
		Aucilla River Basin					
02326200	Aucilla River near Boston, Ga.	Lat 30°46'44", long 83°48'12", Thomas County, Hydrologic Unit 03110103, at bridge on State Highway 133, 1.2 miles south of Boston.	a81	1962-82	2-8-82	5.37	435
		Ochlockonee River Basin					
02327350	Ochlockonee River tributary near Coolidge, Ga.	Lat 31°01'33", long 83°57'32", Thomas County, Hydrologic Unit 03120002, at culvert on State Highway 202, 5.5 miles west of Coolidge.	1.81	1965-82	2-3-82	2.14	162
02327355	Ochlockonee River near Coolidge, Ga.	Lat 31°00'08", long 83°56'21", Thomas County, Hydrologic Unit 03120002, at State Highway 188, 4 miles west of Coolidge.	260	1981-82	4-28-82	12.32	1,730
02327415	Little Ochlockonee River near Moultrie, Ga.	Lat 31°07'02", long 83°58'42", Colquitt County, Hydrologic Unit 03120002, at State Highway 111, 10 miles west of Moultrie.	44.8	1981-82	4-26-82	7.29	1,000
02327550	Barnetts Creek near Meigs, Ga.	Lat 31°01'32", long 84°08'14", Grady County, Hydrologic Unit 03120002, at State Highway 111, 4.2 miles southwest of Meigs.	15.0	1965-75, 1978-82	4-26-82	3.79	262

a Approximately.
c Revised.

Crest-stage partial-record stations--Continued

					Annual maximum		
Station No.	Station name	Location	Drainage area (mi²)	Period of record	Date	Gage height (feet)	Discharge (ft³/s)
		Ochlockonee River Basin--Continued					
02327810	Ochlockonee River near Cairo, Ga.	Lat 30°47'30", long 84°09'16", Grady County, Hydrologic Unit 03120002, at bridge on State Highway 93, 5 miles south of Cairo.	747	1970-82	2-15-82	20.33	4,080
02327860	Popple Branch near Whigham, Ga.	Lat 30°55'36", long 84°15'18", Grady County, Hydrologic Unit 03120002, at culvert on State Highway 179, 3.2 miles north of Whigham.	1.71	1977-82	3-26-82	3.97	253
		Apalachicola River Basin					
02336080	North Fork Peachtree Creek near Chamblee, Ga.	Lat 33°51'43", long 84°17'13", DeKalb County, Hydrologic Unit 03130001, at culvert on Shallowford Road near Chamblee.	19.1	1974-82	2-3-82	11.40	2,160
02336090	North Fork Peachtree Creek tributary near Chamblee, Ga.	Lat 33°50'53", long 84°17'57", DeKalb County, Hydrologic Unit 03130001, at culvert on Meadowcliff Drive near Chamblee.	.32	1974-82	6-22-82	5.41	110
02336102	North Fork Peachtree Creek tributary near Atlanta, Ga.	Lat 33°50'20", long 84°19'19", DeKalb County, Hydrologic Unit 03130001, at culvert on Drew Valley Road near Atlanta.	2.19	1973-78, 1980-82	6-22-82	6.43	790
02336238	South Fork Peachtree Creek tributary near Atlanta, Ga.	Lat 33°47'11", long 84°20'29", DeKalb County, Hydrologic Unit 03130001, at culvert on East Rock Springs Road near Atlanta.	.90	1974-82	9-2-82	3.90	471
02336700	South Utoy Creek tributary at East Point, Ga.	Lat 33°41'25", long 84°28'05", Fulton County, Hydrologic Unit 03130002, at culvert on Headland Drive at East Point.	.79	1964-69‡, 1970-78, 1980-82	12-31-82	4.13	258
02337448	Hurricane Creek tributary near Fairplay, Ga.	Lat 33°35'03", long 84°50'54", Douglas County, Hydrologic Unit 03130002, at culvert on State Highway 5, 8 miles east of Fairplay.	.33	1977-82	2-3-82	5.74	87
02341542	Flat Rock Creek at Columbus, Ga.	Lat 32°32'57", long 84°53'07", Muscogee County, Hydrologic Unit 03130003, at bridge on Warm Springs Road at Columbus.	6.54	1977-82	2-2-82	6.04	812
02341544	Mill Branch at Columbus, Ga.	Lat 32°28'19", long 84°53'58", Muscogee County, Hydrologic Unit 03130003, at culvert on Chalbena Road at Columbus.	1.58	1977-82	4-26-82	5.51	607
02341546	Bull Creek tributary at Columbus, Ga.	Lat 32°28'38", long 84°55'36", Muscogee County, Hydrologic Unit 03130003, at culvert on Woodland Drive at Columbus.	.26	1977-82	7-13-82	3.48	52
02341548	Lindsey Creek tributary at Columbus, Ga.	Lat 32°31'33", long 84°56'21", Muscogee County, Hydrologic Unit 03130003, at culvert on Canberra Avenue at Columbus.	1.42	1977-82	5-19-82	5.37	379
02341600	Juniper Creek near Geneva, Ga.	Lat 32°31'41", long 84°34'14", Talbot-Marion County line, Hydrologic Unit 03130003, at State Highway 41, 1.8 miles south of Geneva.	47.4	1963-82	4-5-82	7.00	720
02341723	Pine Knot Creek near Juniper, Ga.	Lat 32°26'14", long 84°39'25", Marion County, Hydrologic Unit 03130003, at State Highway 355, 8 miles south of Juniper.	31.3	1979-82	4-5-82	5.55	(†)
02341900	Ochillee Creek near Cusseta, Ga.	Lat 32°21'53", long 84°49'02", Chattahoochee County, Hydrologic Unit 03130003, at Hourglass Road, 5 miles northwest of Cusseta.	53.3	1979-82	2-3-82	8.33	(†)

† Discharge not determined.
‡ Operated as a continuous-record gaging station.

Crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (ft^3/s)
		Apalachicola River Basin--Continued					
02343219	Bluff Springs Branch near Lumpkin, Ga.	Lat 32°01'53", long 84°53'18", Stewart County, Hydrologic Unit 03130003, at culvert on State Highway 27, 5.8 miles southwest of Lumpkin.	2.98	1977-82	2-23-82	1.97	121
02343267	Temple Creek near Blakely, Ga.	Lat 31°26'34", long 84°59'00", Early County, Hydrologic Unit 03130004, at culvert on State Highway 39, 5.2 miles north of Blakely.	2.78	1978-82	7-24-82	2.27	90
02346193	Scott Creek near Talbotton, Ga.	Lat 32°39'48", long 84°36'06", Talbot County, Hydrologic Unit 03130005, at culvert on county road, 3.7 miles west of Talbotton.	3.36	1969-82	2-3-82	5.90	538
02346210	Kimbrough Creek near Talbotton, Ga.	Lat 32°41'19", long 84°30'48", Talbot County, Hydrologic Unit 03130005, at culvert on State Highway 22, 1.8 miles southeast of Talbotton.	6.62	1969-82	2-3-82	4.35	900
02346217	Celeoth Creek near Manchester, Ga.	Lat 32°49'20", long 84°36'16", Talbot County, Hydrologic Unit 03130005, at culvert on county road, 2.2 miles south of Manchester.	2.82	1969-82	2-3-82	2.04	238
02348300	Patsiliga Creek near Reynolds, Ga.	Lat 32°34'20, long 84°05'27", Taylor County, Hydrologic Unit 03130005, at State Highway 128, 1 mile north of Reynolds.	139	1963-82	1-1-82	8.39	2,840
02348485	Whitewater Creek near Butler, Ga.	Lat 32°30'14", long 84°20'03", Taylor County, Hydrologic Unit 03130005, at State Highway 137, 6.5 miles southwest of Butler.	17.3	1981-82	4-6-82	7.51	(†)
02349030	Cedar Creek near Rupert, Ga.	Lat 32°23'21", long 84°17'49", Taylor County, Hydrologic Unit 03130005, at U.S. Highway 19, 3 miles south of Rupert.	41.1	1980-82	2-4-82	3.40	(†)
02349330	Buck Creek tributary near Tazewell, Ga.	Lat 32°20'50", long 84°22'26", Schley County, Hydrologic Unit 03130006, at culvert on State Highway 240, 4.3 miles east of Tazewell.	a0.40	1977-82	7-9-82	2.23	27
02349350	Buck Creek near Ellaville, Ga.	Lat 32°18'35", long 84°17'36", Schley County, Hydrologic Unit 03130006, at U.S. Highway 19, 5 miles north of Ellaville.	146	1979-82	2-6-82	7.54	1,280
02349695	Horsehead Creek near Montezuma, Ga.	Lat 32°21'28", long 83°56'11", Macon County, Hydrologic Unit 03130006, at culvert on State Highway 224, 8.7 miles northeast of Montezuma.	.72	1977-82	4-6-82	1.58	18
02350685	Choctahatchee Creek tributary near Plains, Ga.	Lat 32°02'02", long 84°25'59", Sumter County, Hydrologic Unit 03130007, at culvert on U.S. Highway 280, 2.4 miles west of Plains.	.32	1977-82	7-14-82	2.42	73
02351500	Muckalee Creek near Americus, Ga.	Lat 32°04'59", long 84°15'29", Sumter County, Hydrologic Unit 03130007, at State Highway 30, 1 mile west of Americus.	140	1963-82	2-16-82	7.17	1,240
02353100	Ichawaynochaway Creek near Dawson, Ga.	Lat 31°46'18", long 84°33'45", Terrell County, Hydrologic Unit 03130009, at State Highway 50, 7 miles west of Dawson.	118	1963-82	1-5-82	8.07	1,420

† Discharge not determined.
a Approximately.

Crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi2)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft3/s)
		Apalachicola River Basin--Continued					
02354500	Chickasawhatchee Creek at Elmodel, Ga.	Lat 31°21'09", long 84°29'10', Baker County, Hydrologic Unit 03130009, at bridge on State Highway 37 at Elmodel, and 2 miles upstream from mouth.	a320	1940-49✦, 1952-65, 1970-82	3-7-82	8.45	1,930
02356640	Spring Creek at Colquitt, Ga.	Lat 31°10'14", long 84°44'34", Miller County, Hydrologic Unit 03130010, at U.S. Highway 27 at Colquitt.	281	1981-82	2-6-82	11.23	(†)
		Mobile River Basin					
02381300	Fir Creek near Ellijay, Ga.	Lat 34°41'06", long 84°37'23", Gilmer County, Hydrologic Unit 03150102, at culvert on State Highway 282, 8 miles west of Ellijay.	1.35	1966-82	1-3-82	3.03	127
02384500	Conasauga River near Eton, Ga.	Lat 34°49'40", long 84°51'03", Murray-Whitfield County line, Hydrologic Unit 03250101, at State Highway 286, 5 miles west of Eton.	252	1954-58, 1963-81	12-31-73 7-5-76 1-26-78 2-11-81	10.66 9.99 10.12 9.10	c7,860 c6,460 c6,710 c4,940
02384600	Mill Creek tributary near Eton, Ga.	Lat 34°49'38", long 84°48'58", Murray County, Hydrologic Unit 03150101, at culvert on State Highway 286, 3 miles west of Eton.	4.28	1965-82	1-3-82	5.47	376
02386170	Conasauga River below Dalton, Ga.	Lat 34°42'24", long 84°53'47", Whitfield County, Hydrologic Unit 03250101, 5 miles southwest of Dalton.	624	1980-82	3-22-80 1981 1-5-82	665.55 <652.75 662.62	(†) (†) (†)
02387300	Dead Mans Branch near Resaca, Ga.	Lat 34°35'44", long 84°52'11", Gordon County, Hydrologic Unit 03150101, at culvert on State Highway 225, 4.2 miles east of Resaca.	.17	1965-82	1-3-82	2.94	49
02388200	Storey Mill Creek (prior to 1974 published as Moss Creek tributary) near Summerville, Ga.	Lat 34°25'39", long 85°16'03", Chattooga County, Hydrologic Unit 03150103, at culvert on county road 6 miles southeast of Summerville.	6.02	1966-82	1-3-82	8.32	1,330
02395990	Etowah River tributary near Rome, Ga.	Lat 34°16'02", long 85°08'18", Floyd County, Hydrologic Unit 03150104, at culvert on Atteiram Road near Rome.	.37	1979-82	3-17-82	6.16	135
02396515	Silver Creek tributary No. 2 near Rome, Ga.	Lat 34°13'08", long 85°10'27", Floyd County, Hydrologic Unit 03150104, at culvert on U.S. Highways 27 and 411, at junction with Old Lindale Road near Rome.	.54	1979-82	2-2-82	3.44	37
02396550	Silver Creek tributary No. 3 at Rome, Ga.	Lat 34°13'26", long 85°09'14", Floyd County, Hydrologic Unit 03150104, at culvert on U.S. Highway 27, 0.4 mile north of U.S. Highway 411 interchange at Rome.	.26	1979-81	7-15-82	5.11	189
02396680	Horseleg Creek at Rome, Ga.	Lat 34°16'03", long 85°13'29", Floyd County, Hydrologic Unit 03150103, at culvert on Castlewood Drive at Rome.	1.31	1979-82	3-4-79 3-7-80 8-30-81 1-3-82	7.64 4.85 6.62 6.47	566 296 414 399
02411735	McClendon Creek tributary near Dallas, Ga.	Lat 33°50'59", long 84°57'20", Paulding County, Hydrologic Unit 03150108, at culvert on State Highway 120, 9.3 miles southwest of Dallas.	.88	1978-82	2-3-82	4.21	299
02411902	Mann Creek tributary near Tallapoosa, Ga.	Lat 33°51'16", long 85°17'28", Haralson County, Hydrologic Unit 03150108, at culvert on State Highway 100, 7 miles north of Tallapoosa.	.12	1978-82	2-3-82	3.04	36

† Discharge not determined.
✦ Operated as a continuous-record gaging station.
a Approximately.
c Revised.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES--Continued

Peak discharge at miscellaneous sites

The following table contains peak discharges at sites not included in the continuous gaging or crest-stage partial-record program. These discharges are generally obtained for discontinued gaging stations, discontinued crest-stage partial-record stations, or other miscellaneous sites to give better areal coverage of flood events.

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Date	Gage height (feet)	Discharge (ft^3/s)
		Altamaha River Basin					
02214500	Big Indian Creek at Perry, Ga.	Lat 32°27'20", long 83°44'21", Houston County, Hydrologic Unit 03070104,at municipal waterworks at Perry, and 300 ft downstream from bridge on U.S. Highway 41.	108	1944-71†, 1972-77††, 1981	4-2-81	10.28	m3,690
		Apalachicola River Basin					
02331000	Chattahoochee River near Leaf, Ga.	Lat 34°34'37", long 83°38'09", Habersham County, Hydrologic Unit 03130001, at State Highway 115, 1.5 miles east of Leaf.	150	1940-71†, 1972-82	2-3-82	9.22	m7,310
02337400	Dog River near Douglasville, Ga.	Lat 33°39'36", long 84°51'41", Douglas County, Hydrologic Unit 03130002, at county road, 2.2 miles north of Fairplay.	a43	1951-77††, 1982	2-3-82	15.84	m9,310
		Mobile River Basin					
02379500	Cartecay River near Ellijay, Ga.	Lat 34°40'53", long 84°27'20", Gilmer County, Hydrologic Unit 03150102, on right bank adjacent to State Highway 52, 2 miles southeast of Ellijay.	134	1938-77†, 1979-82	1-3-82	8.61	m7,920
02388000	West Armuchee Creek near Subligna, Ga.	Lat 34°34'04", long 85°09'16", Chattooga County, Hydrologic Unit 03150103, 500 feet below bridge on county road, 2 miles east of Subligna.	36.4	1951, 1961-81†, 1982	1-4-82	10.11	m5,760
02388900	Etowah River near Dahlonega, Ga.	Lat 34°30'53", long 84°03'37", Lumpkin County, Hydrologic Unit 03150104, at bridge on State Highway 9, 4 miles west of Dahlonega.	69.7	1950-77††, 1982	2-3-82	11.14	m2,450
02389000	Etowah River near Dawsonville, Ga.	Lat 34°22'57", long 84°03'21", Dawson County, Hydrologic Unit 03150104, 0.5 mile upstream from bridge on State Highway 53, 4 miles southeast of Dawsonville.	107	1940-76†, 1979-80, 1982	2-3-82	13.15	m5,750
02389300	Shoal Creek near Dawsonville, Ga.	Lat 34°25'13", long 84°08'47", Dawson County, Hydrologic Unit 03150104, at bridge on State Highway 53, 1 mile west of Dawsonville, and 6.5 miles upstream from mouth.	21.7	1959-74†, 1977, 1982	2-3-82	8.30	m3,460
02390000	Amicalola Creek near Dawsonville, Ga.	Lat 34°25'32", long 84°12'43", Dawson County, Hydrologic Unit 03250104,at bridge on State Highway 53, 5.3 miles west of Dawsonville.	89.0	1940-52†, 1982	2-3-82	6.10	m5,960
02392500	Little River near Roswell, Ga.	Lat 34°07'09", long 84°23'18", Fulton-Cherokee County line, Hydrologic Unit 03150104, at bridge on State Highway 140, 7 miles north of Roswell.	60.0	1946, 1948-76†, 1982	2-3-82	14.78	m4,600
02394400	Pumpkinvine Creek below Dallas, Ga.	Lat 33°54'57", long 84°52'49", Paulding County, Hydrologic Unit 03150104, at bridge on State Highway 6, 2.2 miles west of Dallas.	42.8	1951-77††, 1982	2-3-82	18.30	m5,000
02394950	Hills Creek near Taylorsville, Ga.	Lat 34°04'27", long 84°57'02", Polk County, Hydrologic Unit 03150104, at bridge on county road, 2 miles southeast of Taylorsville, and 2 miles upstream from mouth.	25.0	1960-74†, 1977, 1979, 1982	2-3-82	10.70	m3,500
02411900	Tallapoosa River at Tallapoosa, Ga.	Lat 33°46'27", long 85°18'00", Haralson County, Hydrologic Unit 03150108, at State Highway 100, 2 miles north of Tallapoosa.	236	1936, 1949, 1951-77††, 1982	2-4-82	25.59	m13,000

Peak discharge at miscellaneous sites--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Date	Gage height (feet)	Dis-charge (ft^3/s)
		Mobile River Basin--Continued					
02413200	Little Tallapoosa River near Bowdon, Ga.	Lat 33°30'48", long 85°14'03", Carroll County, Hydrologic Unit 03150108, at State Highway 5, 2.2 miles southeast of Bowdon.	220	1949-77††, 1982	2-4-82	20.00	m7,000
		Tennessee River Basin					
03568810	Lookout Creek at Trenton, Ga.	Lat 34°51'47", long 85°30'02", Dade County, Hydrologic Unit 06020001, at bridge on State Highway 136 at Trenton.	102	1982	8-17-82	21.22	m8,500
03568825	Little Town Creek at Trenton, Ga.	Lat 34°52'13", long 85°30'37", Dade County, Hydrologic Unit 06020001, at culvert on U.S. Highway 11 at Trenton.	1.73	1982	8-17-82	18.56	m2,090
03568890	Sitton Gulch Creek near Trenton, Ga.	Lat 34°52'13", long 85°29'24", Dade County, Hydrologic Unit 06020001, at bridge on county road 1.5 miles east of Trenton.	20.3	1982	8-17-82	93.40	m1,500
03568927	Squirrel Town Creek at New England, Ga.	Lat 34°55'02", long 85°28'33", Dade County, Hydrologic Unit 06020001, at bridge on U.S. Highway 11 at New England.	8.63	1982	8-17-82	709.30	m7,250
03568945	Pope Creek at I-24 near Wildwood, Ga.	Lat 34°58'14", long 85°26'27", Dade County, Hydrologic Unit 06020001, at Slygo Road overpass on Interstate Highway 24, 1.5 miles northwest of Wildwood.	5.02	1982	8-17-82		m11,900
03568950	Pope Creek at U.S. Highway 11, near Wildwood, Ga.	Lat 34°57'19", long 85°25'44", Dade County, Hydrologic Unit 06020001, at bridge on U.S. Highway 11, 1.1 mile southwest of Wildwood.	6.24	1982	8-17-82		m13,000

† Operated as a continuous-record gaging station.
†† Operated as a crest-stage partial-record station.
a Approximately.
m Annual maximum.

CHARLTON COUNTY

304943082213701 Local number, 27E2.

LOCATION.--Lat 30°49'43", long 82°21'37", Hydrologic Unit 03110201, end of Georgia Highway 177 east of Stephen C. Foster State Park.

Owner: U. S. Geological Survey, Test well OK 8.

AQUIFER.--Principal artesian aquifer.

WELL CHARACTERISTICS.--Drilled observation well, diameter 4 in. (10.1 cm), depth 647 ft (197.2 m), cased to 465 ft (141.7 m), open hole.

DATUM.--Altitude of land-surface is 116 ft (35.3 m) National Geodetic Vertical Datum of 1929.

Measuring point: Floor of recorder shelter, 4.2 ft (1.28 m) above land-surface datum.

REMARKS.--Well pumped Aug. 1, 1978, sounded to obstruction at 484 ft (147.5 m). Well open below obstruction.

PERIOD OF RECORD.--May 1966 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 58.65 ft (17.877 m) below land-surface datum, June 27, 1966; lowest, 71.17 ft (21.693 m) below land surface datum, July 27, 1981.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	70.61	70.75	70.04	69.74	68.86	68.32	67.97	67.54	68.11	68.55	67.86	67.52
2	70.52	70.70	70.01	69.77	68.84	68.26	67.92	67.50	68.14	68.62	67.73	67.46
3	70.59	70.66	70.12	69.76	68.90	68.16	67.84	67.45	68.18	68.61	67.70	67.42
4	70.66	70.64	70.17	69.71	68.78	68.08	67.88	67.46	68.22	68.54	67.70	67.43
5	70.70	70.56	70.22	69.75	68.63	68.07	67.76	67.50	68.19	68.62	67.72	67.48
6	70.66	70.44	70.24	69.70	68.66	67.98	67.77	67.51	68.25	68.62	67.71	67.52
7	70.56	70.44	70.20	69.62	68.70	67.93	67.96	67.42	68.33	68.61	67.69	67.52
8	70.57	70.56	70.10	69.60	68.84	68.20	67.81	67.36	68.36	68.59	67.66	67.48
9	70.66	70.58	70.12	69.52	68.65	68.31	67.73	67.38	68.36	68.54	67.61	67.45
10	70.68	70.52	70.10	69.50	68.70	68.20	67.86	67.43	68.38	68.52	67.59	67.42
11	70.70	70.43	70.12	69.55	68.63	68.07	67.85	67.44	68.38	68.52	67.58	67.38
12	70.74	70.46	70.16	69.51	68.43	68.00	67.87	67.47	68.45	68.51	67.56	67.39
13	70.80	70.49	70.19	69.49	68.32	68.00	67.84	67.50	68.50	68.48	67.50	67.43
14	70.81	70.44	70.12	69.46	68.42	68.00	67.78	67.51	68.53	68.46	67.46	67.36
15	70.78	70.37	69.96	69.41	68.45	67.97	67.76	67.53	68.57	68.45	67.46	67.28
16	70.72	70.35	70.10	69.36	68.35	67.94	67.78	67.57	68.58	68.45	67.48	67.22
17	70.71	70.35	70.17	69.28	68.21	67.93	67.76	67.62	68.59	68.41	67.45	67.23
18	70.68	70.34	70.12	69.24	68.17	67.96	67.72	67.66	68.50	68.38	67.43	67.22
19	70.74	70.33	70.17	69.16	68.17	67.96	67.67	67.72	68.52	68.34	67.46	67.19
20	70.85	70.29	70.24	69.10	68.21	67.88	67.60	67.77	68.58	68.30	67.43	67.19
21	70.85	70.34	70.20	69.09	68.25	67.88	67.62	67.78	68.60	68.25	67.48	67.19
22	70.80	70.35	70.10	69.11	68.29	67.87	67.62	67.86	68.62	68.21	67.44	67.22
23	70.71	70.35	70.05	69.15	68.33	67.87	67.71	67.89	68.62	68.21	67.46	67.25
24	70.70	70.26	70.05	69.15	68.37	67.84	67.67	67.91	68.60	68.20	67.48	67.23
25	70.68	70.32	70.00	69.12	68.38	67.85	67.51	67.91	68.63	68.18	67.45	67.16
26	70.62	70.36	69.94	69.02	68.45	67.90	67.42	67.92	68.65	68.14	67.42	67.09
27	70.63	70.34	69.87	68.88	68.34	68.01	67.38	67.95	68.65	68.08	67.44	67.11
28	70.65	70.31	69.89	68.94	68.28	68.12	67.38	68.02	68.60	68.00	67.44	67.19
29	70.65	70.34	69.92	68.90	---	68.12	67.45	68.06	68.54	67.95	67.50	67.21
30	70.70	70.18	69.92	68.80	---	68.09	67.52	68.08	68.52	67.96	67.58	67.21
31	70.75	---	69.86	68.84	---	68.04	---	68.10	---	67.91	67.58	---
MEAN	70.69	70.43	70.08	69.33	68.49	68.03	67.71	67.67	68.46	68.36	67.55	67.32

WTR YR 1982 MEAN 68.68 HIGH 67.09 LOW 70.85

CHATHAM COUNTY

315950081161201 Local number, 35P94.

LOCATION.--Lat 31°59'50", long 81°16'12", Hydrologic Unit 03060204, Barbour Lathrop Plant Introduction Station, 10 miles (16.1 km) south of Savannah, north of the intersection of U.S. Highway 17 and Argyle Rd.

Owner: U.S. Department of Agriculture.

AQUIFER.--Sands of Holocene and Pleistocene ages.

WELL CHARACTERISTICS.--Bored observation well, diameter 30 in. (76.2 cm), depth 15 ft (4.6 m), cased to 15 ft (4.6 m), open end.

DATUM.--Altitude of land-surface is 18.67 ft (5.691 m) National Geodetic Vertical Datum of 1929.

Measuring point: Iron bracket on recorder shelter, 3.3 ft (1.01 m) above land-surface datum.

REMARKS.--Responds quickly to precipitation. Water levels for periods of missing recorder record, March 28 to April 19 and July 3-15, were estimated.

PERIOD OF RECORD.--August 1942 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.05 ft (0.015 m) below land-surface datum, Sept. 26, 1953; lowest, 12.28 ft (3.743 m) below land-surface datum, November 30, 1972.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.44	9.30	9.92	9.61	6.87	5.34	6.07	3.57	6.54	3.74	3.89	3.50
2	7.52	9.32	9.93	9.46	6.85	5.39	6.14	3.68	6.64	3.86	3.99	3.61
3	7.62	9.35	9.94	9.29	6.87	5.46	6.10	3.80	6.44	3.98	4.10	3.73
4	7.79	9.38	9.96	9.03	6.94	5.53	6.17	3.92	5.88	4.09	4.22	3.84
5	7.87	9.39	9.97	8.74	6.92	5.60	5.85	4.04	5.57	4.13	4.30	3.94
6	7.92	9.39	9.99	8.54	6.90	5.62	5.27	4.16	5.49	3.82	4.34	4.04
7	7.98	9.43	10.00	8.35	6.92	5.57	5.09	4.26	5.51	3.49	4.43	4.11
8	8.07	9.49	10.01	8.15	6.83	5.49	4.91	4.37	5.64	3.58	4.52	4.24
9	8.15	9.52	9.99	8.08	6.80	5.30	4.94	4.48	5.77	3.60	4.42	4.33
10	8.22	9.54	10.02	8.04	6.92	5.21	4.98	4.60	5.94	3.57	4.02	4.25
11	8.27	9.53	10.04	7.97	6.97	5.18	4.92	4.70	6.10	3.40	3.90	4.18
12	8.32	9.55	10.05	7.87	6.79	5.22	5.01	4.81	6.24	3.49	4.00	4.21
13	8.38	9.57	10.07	7.60	6.32	5.28	5.10	4.91	6.24	3.44	3.26	4.26
14	8.44	9.57	10.05	7.10	5.88	5.34	5.19	5.03	6.40	3.56	2.40	4.35
15	8.47	9.57	10.01	6.65	5.59	5.40	5.28	5.14	6.55	3.68	2.44	4.44
16	8.52	9.59	10.03	6.50	5.34	5.46	5.38	5.26	6.67	3.80	2.56	4.53
17	8.57	9.61	10.08	6.43	5.06	5.52	5.02	5.38	6.76	3.41	2.68	4.60
18	8.62	9.65	10.08	6.40	4.84	5.58	4.66	5.47	6.46	2.94	2.46	4.66
19	8.69	9.68	10.08	6.42	4.72	5.55	4.60	5.57	6.00	2.22	2.14	4.68
20	8.78	9.70	10.10	6.44	4.69	5.58	4.68	5.67	5.69	2.14	2.33	4.72
21	8.84	9.73	10.12	6.46	4.79	5.64	4.69	5.70	5.58	2.43	2.59	4.74
22	8.87	9.76	10.08	6.50	4.88	5.70	4.74	5.77	5.55	2.66	2.79	4.80
23	8.90	9.77	10.06	6.46	4.95	5.74	4.83	5.82	5.04	2.81	2.70	4.90
24	8.95	9.75	10.08	6.53	4.99	5.77	4.90	5.96	4.33	2.94	2.40	5.00
25	8.99	9.80	10.10	6.54	5.10	5.72	4.74	6.07	4.17	3.05	2.58	5.10
26	9.02	9.84	10.09	6.60	5.20	5.72	4.06	6.20	4.23	3.20	2.82	5.20
27	9.06	9.86	10.09	6.68	5.20	5.76	3.44	6.34	4.30	3.32	2.99	5.30
28	9.12	9.88	10.10	6.67	5.29	5.82	3.27	6.46	4.02	3.45	3.10	5.40
29	9.16	9.91	10.12	6.71	---	5.88	3.35	6.52	3.58	3.57	3.13	5.45
30	9.21	9.92	10.14	6.70	---	5.94	3.46	6.54	3.59	3.67	3.27	5.53
31	9.26	---	10.01	6.75	---	6.00	---	6.50	---	3.78	3.40	---
MEAN	8.48	9.61	10.04	7.40	5.91	5.56	4.89	5.18	5.56	3.38	3.30	4.52

WTR YR 1982 MEAN 6.16 HIGH 2.14 LOW 10.14

CHATHAM COUNTY

320021081124801 Local number, 36Q20.
LOCATION.--Lat 32°00'21", long 81°12'48", Hydrologic Unit 03060204, 2.7 mi (4.3 km) south of intersection of U.S. Highway 17 with Dean Forest Road.
Owner: H. J. Morrison.
AQUIFER.--Principal artesian aquifer.
WELL CHARACTERISTICS.--Drilled unused domestic well, diameter 3 in. (7.6 cm), depth 365 ft (111.2 m), cased to 330 ft (100.6 m), open hole.
DATUM.--Altitude of land-surface is 13 ft (4.0 m) National Geodetic Vertical Datum of 1929.
Measuring point: Floor of recorder shelter, 3.88 ft (1.183 m) above land-surface datum.
REMARKS.--None.
PERIOD OF RECORD.--March 1958 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 17.66 ft (5.383 m) below land-surface datum, June 28, 1958; lowest, 49.15 ft (14.981 m) below land-surface datum, September 6, 7, 1980.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47.95	47.05	45.50	43.85	44.60	44.57	44.08	42.75	44.50	45.35	45.10	45.20
2	47.85	46.95	45.55	43.95	44.55	44.50	43.95	42.60	44.55	45.40	45.00	45.10
3	48.00	46.92	45.70	43.80	44.40	44.40	43.70	42.60	44.55	45.38	45.10	45.10
4	48.10	46.90	45.70	43.60	44.50	44.35	43.60	42.90	44.50	45.38	45.15	45.20
5	48.15	46.80	45.75	43.75	44.50	44.30	43.35	42.95	44.45	45.45	45.25	45.25
6	48.05	46.60	45.80	43.60	44.40	44.28	43.15	43.00	44.50	45.45	45.25	45.30
7	48.00	46.70	45.70	43.55	44.50	44.15	43.10	42.95	44.60	45.48	45.30	45.35
8	48.05	46.75	45.60	43.50	44.50	44.50	42.95	42.90	44.60	45.50	45.35	45.25
9	48.02	46.80	45.60	43.40	44.30	44.53	42.95	43.05	44.65	45.35	45.35	45.25
10	47.92	46.60	45.55	43.55	44.30	44.40	43.00	43.10	44.65	45.30	45.45	45.20
11	47.85	46.50	45.50	43.65	44.42	44.27	43.05	43.15	44.80	45.25	45.35	45.15
12	47.80	46.45	45.55	43.95	44.35	44.20	43.10	43.35	44.90	45.20	45.25	45.20
13	47.70	46.45	45.60	43.85	44.35	44.20	43.10	43.50	45.00	45.20	45.10	45.15
14	48.15	46.40	45.45	43.95	44.50	44.25	43.10	43.70	45.10	45.10	45.00	45.00
15	48.05	46.30	45.25	44.35	44.48	44.20	43.00	43.85	45.20	45.10	45.00	44.90
16	47.92	46.22	45.55	44.45	44.30	44.18	43.00	44.05	45.25	45.03	45.00	44.85
17	48.08	46.25	45.50	44.65	44.15	44.20	43.10	44.15	45.30	44.95	44.95	44.85
18	48.03	46.28	45.45	44.70	44.30	44.20	43.10	44.20	45.25	44.85	44.85	44.85
19	48.10	46.30	45.65	44.65	44.32	44.15	43.00	44.30	45.25	44.75	44.95	44.85
20	48.12	46.25	45.75	44.65	44.30	44.10	43.00	44.25	45.25	44.75	45.00	44.85
21	48.00	46.35	45.75	44.70	44.20	44.15	43.05	44.30	45.30	44.75	45.00	44.80
22	47.88	46.30	45.65	44.75	44.40	44.25	43.00	44.40	45.30	44.75	45.00	44.83
23	47.78	46.35	45.50	44.60	44.45	44.18	43.05	44.45	45.25	44.75	45.05	44.90
24	47.75	46.15	45.45	44.60	44.45	44.15	43.05	44.45	45.25	44.80	45.05	44.80
25	47.65	46.20	45.25	44.60	44.55	44.05	42.85	44.40	45.25	44.80	45.00	44.65
26	47.58	46.20	45.00	44.65	44.60	44.15	42.85	44.40	45.30	44.85	45.05	44.55
27	47.55	46.12	44.70	44.80	44.50	44.32	42.90	44.40	45.35	44.85	45.15	44.65
28	47.10	46.00	44.60	44.75	44.55	44.40	42.85	44.45	45.30	44.85	45.20	44.70
29	47.05	45.90	44.45	44.75	---	44.35	42.80	44.60	45.20	45.00	45.30	44.60
30	47.10	45.70	44.30	44.65	---	44.30	42.70	44.65	45.15	45.08	45.25	44.60
31	47.10	---	43.90	44.45	---	44.25	---	44.65	---	45.08	45.20	---
MEAN	47.82	46.42	45.36	44.22	44.42	44.27	43.12	43.76	44.98	45.09	45.13	44.96

WTR YR 1982 MEAN 44.97 HIGH 42.60 LOW 48.15

CHATHAM COUNTY

320122080510202 Local number, 39Q3.

LOCATION.--Lat 32°01'22", long 80°51'02", Hydrologic Unit 03060204, Tybee Island near Fort Screven.
Owner: U.S. Geological Survey, test well 7.

AQUIFER.--Principal artesian aquifer.

WELL CHARACTERISTICS.--Drilled observation well, diameter 10 in. (25.4 cm), depth 600 ft (182.9 m), cased to 129 ft (39.3 m), open hole.

DATUM.--Altitude of land-surface is 7.0 ft (2.13 m) National Geodetic Vertical Datum of 1929.
Measuring point: Top of 10 in. (25.4 cm) casing, 2.0 ft (0.61 m) above land-surface datum.

REMARKS.--Borehole geophysical survey conducted January 24, 1962.

PERIOD OF RECORD.--May 1952 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 17.8 ft (5.425 m) below land-surface datum, April 11, 1963; lowest, 29.65 ft (9.038 m) below land-surface datum, July 27, 1981.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28.00	27.43	27.05	26.70	26.55	25.75	26.20	25.44	26.65	27.05	27.50	27.20
2	28.10	27.55	27.40	26.55	26.30	25.85	26.10	25.38	26.90	27.20	26.95	27.30
3	27.85	27.60	27.65	26.45	26.30	25.80	26.25	25.46	26.95	27.50	26.95	27.20
4	28.05	27.65	27.75	26.85	26.45	25.60	26.50	25.85	27.00	27.70	27.20	27.50
5	28.10	27.55	27.45	26.75	26.33	25.65	25.95	25.75	27.00	27.30	27.25	27.20
6	28.15	27.50	27.50	26.75	26.15	25.60	26.15	25.90	27.00	27.30	27.20	27.35
7	28.15	27.55	27.45	26.65	26.35	25.60	26.25	26.00	26.95	27.60	27.40	27.20
8	27.90	27.65	27.60	26.45	26.20	26.20	25.95	25.95	27.10	27.55	27.35	26.70
9	27.90	27.65	27.45	26.40	26.15	26.00	26.00	25.85	27.05	27.50	27.40	27.00
10	27.95	27.50	27.20	26.80	26.25	26.00	26.10	25.85	27.05	27.50	27.60	27.10
11	27.85	27.20	27.05	26.90	26.15	25.90	26.00	26.00	26.95	27.50	27.50	27.20
12	27.75	27.05	27.15	26.60	26.00	25.80	26.20	26.15	26.95	27.45	27.50	27.26
13	27.60	26.90	27.00	26.55	26.10	25.95	26.15	26.35	27.25	27.40	27.20	27.28
14	27.50	27.00	26.85	26.50	26.25	25.95	26.15	26.40	27.30	27.25	27.15	27.28
15	27.50	26.95	27.00	26.90	26.30	25.80	25.95	26.50	27.25	27.20	27.20	27.20
16	27.60	26.95	27.45	26.65	26.20	25.75	25.90	26.45	27.50	27.20	27.10	26.90
17	27.75	27.25	27.25	26.75	25.90	25.90	26.10	26.60	27.35	27.10	27.10	26.80
18	27.75	27.20	27.30	26.65	25.85	26.00	26.15	26.55	27.05	27.05	27.60	27.10
19	28.05	27.30	27.40	26.60	25.95	25.90	25.90	26.70	27.25	26.95	27.15	26.95
20	28.00	27.70	27.50	26.65	25.80	25.95	25.95	26.65	27.15	26.95	27.45	27.00
21	28.00	27.65	27.40	26.40	25.75	25.90	26.00	26.55	27.15	26.95	27.50	26.95
22	28.10	27.40	27.35	26.25	25.70	26.00	25.85	26.90	27.15	27.10	27.55	27.00
23	28.00	27.40	27.35	26.30	25.80	25.65	25.75	26.70	27.20	27.15	27.50	26.70
24	27.90	27.25	27.30	26.55	26.00	25.40	26.10	26.70	26.95	27.15	27.60	26.85
25	27.55	27.38	26.90	26.55	25.95	25.50	25.70	26.15	26.95	27.20	27.60	26.60
26	27.65	27.30	26.65	26.60	25.55	25.80	25.75	26.45	27.10	27.15	27.45	26.20
27	27.95	27.40	26.65	26.50	25.85	25.90	25.65	26.50	27.15	27.05	27.25	26.80
28	27.90	27.55	26.80	26.55	25.90	25.75	25.65	26.65	27.30	27.10	27.50	26.70
29	27.70	27.35	26.85	26.60	---	25.85	25.30	26.85	27.35	27.45	27.20	26.65
30	27.55	27.20	26.50	26.50	---	26.00	25.30	26.95	27.15	27.50	27.10	---
31	27.45	---	26.30	26.30	---	26.15	---	26.95	---	27.75	27.40	---
MEAN	27.85	27.37	27.18	26.59	26.07	25.83	25.97	26.29	27.10	27.28	27.34	27.01

WTR YR 1982 MEAN 26.83 HIGH 25.30 LOW 28.15

CHATHAM COUNTY

320202080541201 Local number, 38Q2.
LOCATION.--Lat 32°02'02", long 80°54'12", Hydrologic Unit 03060204, Cockspur Island, near pilot house.
Owner: U.S. Department of the Interior, National Park Service.
AQUIFER.--Principal artesian aquifer.
WELL CHARACTERISTICS.--Drilled observation well, diameter 8 in. (20.3 cm), depth 348 ft (106.1 m), cased to 110 ft (33.5 m), open hole.
DATUM.--Altitude of land-surface is 8.0 ft (2.44 m) National Geodetic Vertical Datum of 1929.
Measuring point: Floor of recorder shelter, 3.62 ft (1.103 m) above land-surface datum.
REMARKS.--Borehole geophysical survey conducted June 16, 1961.
PERIOD OF RECORD.--February 1956 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 16.0 ft (4.88 m) below land-surface datum, March 5, 1956; lowest, 35.60 ft (10.851 m) below land-surface datum, September 2-6, 1980.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33.80	33.40	32.80	32.20	32.00	31.30	31.60	30.79	32.20	32.60	32.55	32.60
2	33.80	33.40	33.00	32.15	31.80	31.40	31.50	30.68	32.20	32.50	32.30	32.60
3	33.70	33.45	33.20	32.00	31.70	31.30	31.55	30.71	32.20	32.60	32.20	32.85
4	33.80	33.50	33.25	32.10	31.85	31.15	31.75	31.05	32.20	32.60	32.30	32.80
5	33.90	33.40	33.05	32.30	31.75	31.20	31.40	31.00	32.20	32.50	32.40	32.50
6	33.92	33.25	33.10	32.05	31.70	31.10	31.50	31.15	32.20	32.50	32.50	32.60
7	33.90	33.40	33.00	31.95	31.80	31.00	31.55	31.15	32.30	32.65	32.60	32.70
8	33.85	33.45	33.10	31.85	31.60	31.50	31.35	31.10	32.40	32.70	32.65	32.50
9	33.85	33.45	32.95	31.50	31.50	31.50	31.30	31.15	32.35	32.75	32.80	32.50
10	33.78	33.25	32.70	31.90	31.65	31.45	31.40	31.20	32.35	32.70	32.90	32.50
11	33.70	33.00	32.60	31.60	31.60	31.35	31.30	31.25	32.30	32.80	32.90	32.50
12	33.60	32.85	32.65	31.80	31.50	31.30	31.40	31.35	32.30	32.80	32.80	32.60
13	33.40	32.80	32.60	31.55	31.60	31.40	31.45	31.50	32.50	32.80	32.70	32.60
14	33.40	32.80	32.45	31.60	31.70	31.40	31.40	31.55	32.70	32.65	32.65	32.50
15	33.40	32.80	32.50	32.00	31.70	31.30	31.25	31.60	32.70	32.55	32.50	32.40
16	33.45	32.85	32.90	31.85	31.60	31.30	31.20	31.60	32.80	32.50	32.50	32.35
17	33.55	33.05	32.80	32.00	31.35	31.40	31.35	31.81	32.90	32.25	32.50	32.30
18	33.55	33.05	32.85	32.00	31.35	31.45	31.35	31.90	32.70	32.25	32.45	32.30
19	33.80	33.10	32.90	31.95	31.40	31.40	31.20	31.95	32.60	32.25	32.60	32.40
20	33.85	33.30	33.00	32.00	31.30	31.35	31.20	31.95	32.55	32.25	32.80	32.45
21	33.88	33.30	32.90	31.90	31.25	31.35	31.20	31.85	32.60	32.25	32.85	32.30
22	33.90	33.20	32.85	31.70	31.20	31.40	31.10	31.85	32.50	32.25	32.80	32.40
23	33.80	33.10	32.80	31.65	31.30	31.20	31.00	31.90	32.60	32.40	32.80	32.30
24	33.70	33.05	32.85	31.90	31.40	31.00	31.10	32.00	32.40	32.42	32.90	32.20
25	33.50	33.10	32.65	31.95	31.30	31.00	30.85	31.90	32.50	32.50	32.80	32.10
26	33.50	33.05	32.30	31.95	31.15	31.30	30.90	31.90	32.50	32.40	32.80	32.00
27	33.70	33.10	32.25	31.95	31.30	31.40	31.00	31.95	32.60	32.40	32.70	32.20
28	33.70	33.20	32.40	32.00	31.40	31.30	30.90	31.95	32.70	32.40	32.80	32.20
29	33.60	33.10	32.40	32.00	---	31.40	30.70	32.05	32.70	32.50	32.60	32.20
30	33.45	32.90	32.20	31.90	---	31.50	30.70	32.20	32.60	32.60	32.70	31.90
31	33.40	---	31.90	31.75	---	31.50	---	32.25	---	32.60	32.70	---
MEAN	33.68	33.16	32.74	31.90	31.53	31.32	31.25	31.56	32.48	32.51	32.65	32.41

WTR YR 1982 MEAN 32.27 HIGH 30.68 LOW 33.92

CHATHAM COUNTY

320530081085001 Local number, 36Q8.

LOCATION.--Lat 32°05'30", long 81°08'50", Hydrologic Unit 03060204, 0.19 mi (0.3 km) southeast of intersection of Alfred Street and U.S. Highway 80.

Owner: Layne-Atlantic Co.

AQUIFER.--Principal artesian aquifer.

WELL CHARACTERISTICS.--Drilled unused industrial well, diameter 4 in. (10.1 cm), depth 406 ft (123.7 m), cased to 250 ft (76.2 m), open hole.

DATUM.--Altitude of land-surface is 9.91 ft (3.021 m) National Geodetic Vertical Datum of 1929.

Measuring point: Top of 3 in. (7.6 cm) casing, 1.0 ft (0.30 m) above land-surface datum.

REMARKS.--None.

PERIOD OF RECORD.--February 1954 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 49.17 ft (14.987 m) below land-surface datum, July 11, 1954; lowest, 124.40 ft (37.917 m) below land-surface datum, August 30, 1980.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	111.25	107.65	103.80	79.40	101.50	105.30	87.35	100.80	101.80	106.60	106.45	107.10
2	111.50	107.10	103.70	80.95	103.60	104.30	85.90	100.70	102.00	106.90	106.50	108.40
3	112.60	107.15	104.00	82.60	103.90	104.50	83.90	101.10	101.80	105.30	107.10	109.00
4	112.60	107.25	104.10	84.75	103.70	104.60	83.00	100.10	101.60	103.40	107.30	108.50
5	111.70	107.30	103.50	86.90	103.70	103.45	84.25	100.25	101.60	102.80	107.30	106.80
6	111.10	107.00	103.00	88.55	103.00	103.20	88.50	100.90	101.50	104.30	108.20	105.30
7	111.10	107.05	102.30	90.30	102.60	103.30	90.90	101.10	101.70	105.70	106.60	105.70
8	111.20	107.00	102.80	91.85	102.90	103.60	92.20	101.10	102.90	106.50	104.00	106.50
9	111.60	106.90	103.60	93.30	104.00	103.50	93.60	101.15	104.45	106.60	104.70	106.10
10	111.85	106.95	103.20	95.15	104.40	103.30	93.70	101.30	105.60	106.10	106.00	105.65
11	111.10	106.95	102.60	97.80	105.70	103.10	94.15	101.90	106.10	105.30	105.70	103.50
12	110.15	107.20	102.70	101.30	106.30	103.10	96.00	102.30	105.10	105.00	105.60	101.10
13	110.15	107.35	102.80	102.50	106.10	103.25	96.90	102.20	104.10	105.00	105.80	101.80
14	111.05	107.05	102.10	10[illegible].60	105.50	103.10	97.30	102.40	104.60	105.90	105.70	103.40
15	111.75	106.30	102.10	1[illegible]2.10	105.30	103.15	97.90	102.40	104.90	106.45	105.20	103.90
16	111.85	106.30	102.60	102.55	105.20	104.10	98.60	102.45	104.60	106.40	105.30	104.00
17	109.90	106.80	102.60	102.80	105.80	103.70	99.20	102.70	104.60	106.00	106.00	104.40
18	104.60	106.65	102.00	103.15	106.60	103.80	99.30	102.85	103.30	103.90	106.25	104.30
19	101.10	105.50	100.40	103.80	106.70	105.30	99.10	102.60	103.60	103.50	106.60	104.30
20	100.85	105.25	97.80	103.90	106.40	104.65	99.20	102.60	104.50	104.50	107.10	104.20
21	103.90	105.60	94.80	102.90	105.60	104.30	99.70	102.60	105.50	104.90	105.85	104.00
22	105.70	105.55	92.80	102.85	105.40	103.95	100.70	102.60	105.60	105.30	103.60	104.18
23	107.40	105.55	90.50	102.85	106.00	103.40	101.10	102.40	105.20	105.45	103.60	104.30
24	108.40	105.70	87.30	101.90	105.90	104.20	101.00	102.15	104.80	105.30	105.30	104.10
25	108.60	104.90	83.50	101.45	105.90	105.35	101.20	102.20	104.60	105.60	106.00	103.00
26	108.20	103.85	79.00	101.65	106.00	106.15	98.70	101.70	104.85	105.60	105.75	101.00
27	107.73	103.45	75.50	102.40	105.60	104.90	98.70	101.55	104.50	105.70	105.40	101.60
28	108.30	103.45	72.00	102.30	105.30	101.30	100.40	101.80	104.50	105.95	104.00	103.30
29	109.75	103.60	74.00	102.40	---	95.60	100.90	102.00	104.70	106.25	102.30	103.25
30	110.30	103.60	76.00	101.85	---	91.80	100.70	102.00	105.60	107.20	103.10	103.40
31	108.70	---	77.65	100.60	---	89.20	---	101.50	---	106.65	105.15	---
MEAN	109.23	106.07	95.31	97.37	104.95	102.79	95.47	101.79	104.01	105.49	105.60	104.54

WTR YR 1982 MEAN 102.70 HIGH 72.00 LOW 112.60

CLAY COUNTY

313637085032601 Local number, 5L1.

LOCATION.--Lat 31°36'37", long 85°03'26", Hydrologic Unit 03130004, between Chattahoochee River and Ft. Gaines waterplant. Owner: U.S. Army Corps of Engineers.

AQUIFER.--Clayton Limestone.

WELL CHARACTERISTICS.--Drilled observation well, diameter 3 in. (7.6 cm), depth 120 ft (36.6 m), cased to 44 ft (13.4 m), open hole.

DATUM.--Altitude of land-surface is 146.7 ft (44.71 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of floor of recorder shelter, 2.7 ft (0.82 m) above land-surface datum.

REMARKS.--Water levels for periods of missing recorder record, April 28 to June 6, were estimated.

PERIOD OF RECORD.--May 23, 1957 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 18.86 ft (5.749 m) below land-surface datum, February 17, 1966; lowest, 35.88 ft (10.936 m) below land-surface datum, August 17, 1963.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31.86	32.68	32.32	31.24	31.17	29.60	29.68	30.20	30.30	30.86	30.38	30.41
2	31.89	32.58	32.34	31.17	30.88	29.50	29.79	30.40	30.28	31.07	29.76	30.38
3	32.21	32.39	32.37	31.06	28.81	29.50	29.49	30.45	30.25	31.17	29.66	30.27
4	32.40	32.39	32.41	30.87	25.16	29.49	30.26	30.48	30.40	31.18	29.62	30.74
5	32.12	32.38	32.65	30.84	24.68	29.49	30.50	30.55	30.60	31.10	29.60	30.92
6	32.10	32.41	32.77	30.83	25.27	29.98	30.06	30.60	30.40	31.12	29.54	30.64
7	32.07	32.58	32.66	30.74	27.48	29.93	29.98	30.55	30.35	31.13	30.39	30.58
8	32.11	32.74	32.52	30.67	28.37	29.55	29.98	31.00	30.64	31.17	30.60	30.57
9	32.11	32.68	32.50	30.63	28.82	29.08	30.02	30.85	30.00	30.58	30.21	30.65
10	32.32	32.50	32.48	31.04	28.96	28.99	30.15	30.82	29.63	31.03	30.13	30.64
11	32.47	32.45	32.48	31.16	29.03	28.96	30.46	30.80	30.19	31.16	29.88	30.91
12	32.34	32.50	32.64	31.08	28.80	29.31	30.57	30.82	30.81	30.72	29.90	31.03
13	32.23	32.51	32.73	30.94	28.57	30.02	30.11	30.70	30.92	31.12	29.96	30.94
14	32.23	32.61	32.50	30.90	28.92	30.15	30.09	30.60	30.98	30.70	30.51	30.50
15	32.19	32.76	32.45	30.58	28.94	29.77	30.16	30.80	31.06	30.66	30.71	30.68
16	32.16	32.63	32.57	30.54	28.90	29.72	30.16	31.15	30.97	30.81	30.34	30.18
17	32.36	32.50	32.43	30.51	27.90	29.57	30.23	30.92	30.67	31.01	30.16	30.70
18	32.58	32.47	32.45	30.83	28.36	29.59	30.58	30.75	30.57	31.06	30.12	30.97
19	32.55	32.43	32.62	30.84	28.75	29.74	30.73	30.72	30.83	30.58	30.12	31.09
20	32.40	32.28	32.70	30.82	28.72	30.17	30.30	30.70	31.03	30.34	30.13	30.72
21	32.36	32.58	32.52	30.83	28.67	30.09	30.03	30.68	30.69	30.37	30.60	30.62
22	32.33	32.76	32.38	30.81	28.71	29.32	30.01	30.80	30.54	30.16	30.76	30.68
23	32.29	32.59	32.40	31.38	28.71	29.40	30.00	31.28	30.55	30.10	30.31	30.67
24	32.47	32.44	32.55	31.57	28.67	29.42	30.02	31.20	30.70	30.62	30.19	30.77
25	32.64	32.45	32.51	31.16	29.12	29.62	30.65	30.85	30.76	30.79	29.98	31.05
26	32.50	32.44	32.58	31.12	29.29	29.98	30.87	30.87	30.96	30.19	30.15	31.22
27	32.29	32.38	32.65	31.15	29.87	30.33	30.92	30.90	31.09	30.12	30.20	30.98
28	32.34	32.64	32.32	31.09	30.07	29.95	30.50	30.93	30.90	30.13	30.77	30.80
29	32.34	32.82	32.20	31.07	---	29.93	29.70	31.05	30.60	30.10	30.97	30.79
30	32.38	32.54	32.16	31.47	---	30.13	30.00	31.15	30.80	30.08	30.63	30.83
31	32.52	---	31.75	31.57	---	29.90	---	31.00	---	30.50	30.45	---
MEAN	32.30	32.54	32.47	30.98	28.56	29.68	30.20	30.79	30.62	30.70	30.22	30.73

WTR YR 1982 MEAN 30.83 HIGH 24.68 LOW 32.82

COOK COUNTY

310813083260301 Local number, 18H16.

LOCATION.--Lat 31°08'13", long 83°26'03", Hydrologic Unit 03110203, on West Second Street near intersection of Georgia Highways 76 and 37.

Owner: U.S. Geological Survey, Adel test well.

AQUIFER.--Principal artesian aquifer.

WELL CHARACTERISTICS.--Drilled observation well, diameter 8 in. (20.3 cm), depth 865 ft (263.6 m), cased to 207 ft (63.1 m), open hole.

DATUM.--Altitude of land-surface is 241 ft (73.5 m) National Geodetic Vertical Datum of 1929.

Measuring point: Floor of recorder shelter, 2.66 ft (0.811 m) above land-surface datum.

REMARKS.--Well pumped July 19, 1978; water-quality sample collected at conclusion of pumping. Borehole geophysical survey conducted October 24, 1974.

PERIOD OF RECORD.--December 1964 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 163.34 ft (49.786 m) below land-surface datum, July 5, 1966; lowest, 173.87 ft (52.996 m) below land-surface datum, June 30, 1981.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	173.65	173.28	172.64	172.12	172.11	171.77	171.58	171.33	171.62	172.70	171.87	172.18
2	173.63	173.35	172.65	172.20	172.12	171.81	171.57	171.25	171.72	172.80	171.88	172.16
3	173.63	173.32	172.74	172.11	171.99	171.61	171.34	171.31	171.82	172.70	171.98	172.12
4	173.64	173.28	172.74	172.11	172.13	171.46	171.26	171.43	172.00	172.54	171.99	171.97
5	173.70	173.25	172.80	172.53	172.13	171.42	171.21	171.52	172.06	172.53	172.11	171.92
6	173.83	173.22	172.71	172.36	171.99	171.24	171.22	171.61	172.17	172.59	172.14	171.94
7	173.72	173.25	172.71	172.26	171.98	171.16	171.44	171.60	172.48	172.64	172.08	172.01
8	173.64	173.29	172.68	172.30	172.02	171.71	171.32	171.27	172.79	172.70	171.95	171.95
9	173.52	173.27	172.74	172.19	171.87	171.89	171.11	171.21	172.95	172.68	171.92	171.90
10	173.47	173.25	172.71	172.25	171.95	171.79	171.15	171.34	173.05	172.46	171.99	171.88
11	173.43	173.16	172.77	172.63	172.02	171.61	171.13	171.45	173.20	172.31	172.02	171.91
12	173.44	173.12	172.69	172.74	171.89	171.55	171.30	171.55	173.26	172.31	171.99	171.95
13	173.49	173.15	172.63	172.36	171.85	171.48	171.33	171.72	173.06	172.45	171.93	171.94
14	173.49	173.18	172.62	172.14	171.94	171.38	171.28	171.93	173.05	172.50	171.84	171.88
15	173.50	173.15	172.32	172.60	171.93	171.44	171.38	171.94	173.37	172.50	171.71	171.97
16	173.48	173.11	172.69	172.37	171.72	171.60	171.46	171.92	173.46	172.44	171.81	171.85
17	173.48	172.83	172.68	172.54	171.52	171.58	171.41	172.04	173.42	172.30	171.97	171.53
18	173.49	172.83	172.66	172.61	171.74	171.60	171.25	172.08	173.18	172.07	171.96	171.65
19	173.55	172.84	172.85	172.46	171.85	171.53	171.31	172.15	173.06	172.15	171.96	171.67
20	173.70	172.83	172.87	172.38	171.64	171.39	171.34	171.97	173.01	172.10	172.04	171.75
21	173.84	172.83	172.86	172.38	171.34	171.26	171.41	171.92	173.04	172.08	171.99	171.86
22	173.81	172.83	172.73	172.34	171.58	171.40	171.41	171.89	173.02	172.09	171.71	171.65
23	173.72	172.84	172.56	172.13	171.90	171.43	171.57	171.84	172.98	172.08	171.76	171.33
24	173.55	172.79	172.36	172.09	171.87	171.31	171.42	171.86	172.98	172.01	171.93	171.52
25	173.44	172.86	172.17	172.13	171.83	171.28	171.13	171.94	172.98	172.03	171.95	171.86
26	173.42	172.84	172.20	172.22	171.97	171.37	171.09	171.86	172.87	172.04	172.03	171.87
27	173.38	172.76	172.04	172.46	171.71	171.46	171.19	171.87	172.72	172.07	172.10	171.98
28	173.34	172.68	172.07	172.46	171.61	171.45	171.23	171.86	172.72	171.99	172.07	172.12
29	173.25	172.67	172.20	172.44	---	171.53	171.29	171.90	172.70	172.00	172.00	172.18
30	173.22	172.65	172.43	172.24	---	171.59	171.35	171.87	172.68	172.07	172.18	172.31
31	173.26	---	172.19	171.95	---	171.56	---	171.62	---	172.04	172.22	---
MEAN	173.54	173.02	172.57	172.33	171.86	171.51	171.32	171.71	172.78	172.32	171.97	171.89

WTR YR 1982 MEAN 172.24 HIGH 171.09 LOW 173.84

DECATUR COUNTY

305736084355801 Local number, 9F520.

LOCATION.--Lat 30°57'36", long 84°35'58", Hydrologic Unit 03130008, U.S. 27 north of Bainbridge, right on dirt road near John Deere tractor dealership.

Owner: Graham Bolton.

AQUIFER.--Principal artesian aquifer.

WELL CHARACTERISTICS.--Unused private irrigation well, diameter 12 in. (30.5 cm), depth 251 ft (76.5 m), cased to 130 ft (39.6 m), open hole.

DATUM.--Altitude of land-surface datum is 128 ft (39 m), from topographic map.

Measuring point: Floor of recorder shelter, 3.50 ft (1.067 m) above land-surface datum.

REMARKS.--This well is about 15 ft (4.6 m) from pumped well. Water levels for period of missing recorder record, May 17 to June 6, were estimated.

PERIOD OF RECORD.--June 1969 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 36.75 ft (11.201 m) below land-surface datum, April 24, 1975; lowest, 54.78 ft (16.697 m) below land-surface datum, August 20, 1981.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50.24	50.84	52.63	50.18	47.92	45.97	46.34	45.70	46.24	46.57	43.97	44.08
2	50.25	51.09	50.93	50.06	47.89	45.94	46.35	45.64	46.31	46.57	43.82	44.88
3	50.27	50.86	50.93	49.93	47.89	45.93	46.38	45.60	46.32	46.55	43.70	44.23
4	50.29	50.87	50.91	49.85	47.89	45.94	46.41	47.32	46.34	46.54	43.62	44.23
5	50.30	50.86	50.89	49.73	47.83	45.97	46.38	47.36	46.35	46.80	43.56	44.26
6	50.31	50.87	50.85	49.53	47.75	45.93	46.48	45.71	46.40	46.60	43.50	44.29
7	50.32	50.89	50.82	49.37	47.63	46.02	46.50	45.67	46.41	46.60	43.46	44.32
8	50.35	50.90	50.79	49.22	47.46	46.09	46.44	45.66	46.49	46.64	43.42	44.35
9	50.37	50.90	50.78	49.03	47.29	46.07	46.49	45.63	46.53	46.65	43.41	44.38
10	50.38	50.91	50.76	48.93	47.16	46.01	46.49	45.62	46.56	46.68	43.40	44.41
11	50.41	50.92	50.75	48.80	47.01	45.98	46.48	45.67	46.62	46.71	43.38	44.45
12	50.42	50.93	50.75	48.65	46.84	45.95	46.47	47.51	46.67	46.73	43.36	44.49
13	50.44	50.94	50.73	48.52	46.76	45.95	46.46	47.43	46.67	46.76	43.35	44.52
14	50.47	50.93	50.71	48.50	46.67	45.94	46.47	45.89	46.66	46.78	43.33	44.54
15	50.48	50.92	50.72	48.44	46.57	45.93	46.50	45.90	46.71	46.79	43.34	44.56
16	50.50	50.92	50.73	48.37	46.48	45.96	46.53	45.97	46.77	46.79	43.34	44.59
17	50.53	50.94	50.70	48.33	46.40	45.99	46.55	45.91	46.78	46.77	43.34	44.63
18	50.56	50.94	50.70	48.25	46.39	46.03	46.59	45.90	46.77	46.71	43.35	44.66
19	50.59	50.94	50.68	48.20	46.32	46.03	46.59	45.91	46.80	46.66	43.40	44.67
20	50.62	50.96	50.65	48.15	46.21	46.08	46.63	45.93	46.81	46.62	43.44	44.66
21	50.64	50.95	50.59	48.11	46.10	46.08	46.66	45.94	46.84	46.59	43.44	44.67
22	50.66	50.95	50.57	48.08	46.06	46.10	46.67	45.96	46.86	46.55	43.46	44.70
23	50.70	50.94	50.55	48.02	46.00	46.11	46.67	45.97	46.87	46.45	43.50	44.71
24	50.72	50.93	50.53	48.02	45.95	46.12	46.64	45.99	46.88	45.96	43.54	44.70
25	50.73	50.95	50.50	47.97	45.94	46.15	46.57	46.01	46.89	45.54	43.57	44.69
26	50.76	50.95	50.47	47.99	45.94	46.21	46.37	46.03	46.89	45.31	43.61	44.71
27	50.78	50.94	50.45	47.96	45.92	46.24	46.16	46.07	46.80	45.17	43.65	44.77
28	50.79	50.94	50.44	47.94	45.96	46.27	45.98	46.13	46.68	45.06	47.03	44.81
29	50.81	50.93	50.42	47.92	---	46.27	45.86	46.18	46.61	44.93	48.96	44.84
30	50.83	50.90	50.35	47.88	---	46.29	45.77	46.20	46.58	44.59	44.26	44.87
31	50.84	---	50.25	47.87	---	46.32	---	46.18	---	44.20	44.06	---
MEAN	50.53	50.92	50.73	48.64	46.79	46.06	46.43	46.08	46.64	46.25	43.82	44.56

WTR YR 1982 MEAN 47.29 HIGH 43.33 LOW 52.63

DOUGHERTY COUNTY

313530084203201 Local number, 11L2.

LOCATION.--Lat 31°35'32", long 84°20'35", Hydrologic Unit 03130008, Tallassee Plantation, 10.4 mi (16.7 km) west of Albany.
Owner: Georgia Department of Natural Resources.

AQUIFER.--Clayton Limestone.

WELL CHARACTERISTICS.--Drilled observation well, diameter 3 in. (7.6 cm), depth 656 ft (199.9 m), cased to 542 ft (165.2 m), open hole.

DATUM.--Altitude of land-surface datum is 222 ft (68 m), from topographic map.
Measuring point: Floor of recorder shelter, 3.02 ft (0.920 m) above land-surface datum.

REMARKS.--Well pumped April 1976; water-quality sample collected at conclusion of pumping. Borehole geophysical survey conducted June 3, 1975.

PERIOD OF RECORD.--September 1973 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 58.90 ft (17.953 m) below land-surface datum, April 29, 1975; lowest, 123.45 ft (37.628 m) below land-surface datum, August 2, 1981.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	117.64	110.19	104.12	99.88	96.78	94.78	92.51	90.88	99.14	104.04	99.69	101.25
2	117.49	109.87	104.08	99.60	96.42	94.64	92.38	90.86	99.28	103.80	99.45	101.78
3	117.48	109.55	104.17	99.47	96.12	94.41	92.27	90.82	99.49	103.53	99.29	102.30
4	117.33	109.30	104.19	99.33	96.08	94.30	92.30	90.82	99.62	103.20	99.22	102.82
5	117.05	109.09	104.15	99.18	96.02	94.22	92.07	90.95	99.72	102.97	99.09	103.19
6	116.75	108.85	103.97	99.03	95.92	94.12	91.89	91.10	100.13	102.87	98.88	103.35
7	116.50	108.68	103.68	98.82	95.85	93.97	91.93	91.35	100.59	102.70	98.72	103.19
8	116.57	108.54	103.39	98.68	95.67	94.10	91.84	91.69	100.85	102.78	98.63	102.98
9	116.70	108.37	103.30	98.56	95.46	94.00	91.68	91.96	101.12	102.98	98.60	102.82
10	116.64	108.13	103.18	98.44	95.37	93.77	91.66	92.02	101.57	103.14	98.58	102.72
11	116.35	107.93	103.14	98.42	95.38	93.57	91.67	92.07	102.13	103.22	98.50	102.67
12	116.14	107.83	102.86	98.28	95.30	93.52	91.68	92.45	102.91	103.22	98.27	102.62
13	115.85	107.69	102.70	97.93	95.20	93.47	91.60	92.13	103.62	103.21	98.04	102.58
14	115.55	107.40	102.42	97.59	95.18	93.46	91.57	93.92	104.06	103.12	97.83	102.47
15	115.00	107.06	102.16	97.48	95.16	93.52	91.59	94.85	104.24	102.95	97.71	102.26
16	114.67	106.69	102.08	97.40	94.99	93.53	91.74	95.71	104.37	102.85	97.57	102.03
17	114.50	106.48	102.07	97.35	94.67	93.57	91.87	96.41	104.49	102.73	97.45	101.87
18	114.15	106.46	101.85	97.32	94.53	93.64	91.92	97.11	104.59	102.53	97.46	101.70
19	114.00	106.33	101.76	97.28	94.60	93.69	91.82	97.91	104.66	102.27	97.58	101.48
20	113.75	106.12	101.72	97.22	94.68	93.60	91.91	98.75	104.61	101.98	97.60	101.26
21	113.45	106.03	101.62	97.22	94.77	93.45	92.04	99.63	104.65	101.81	97.48	101.24
22	113.09	105.93	101.51	97.20	94.84	93.27	92.08	100.29	104.81	101.69	97.40	101.38
23	112.73	105.70	101.41	97.20	94.80	93.14	92.03	100.63	105.00	101.54	97.45	101.56
24	112.37	105.42	101.32	97.18	94.65	92.99	91.77	100.69	105.16	101.36	97.54	101.54
25	111.90	105.23	101.19	97.17	94.61	92.80	91.45	100.57	105.24	101.15	97.61	101.53
26	111.51	105.04	101.07	97.18	94.77	92.73	91.20	100.32	105.17	100.93	97.83	101.82
27	111.32	104.85	100.95	97.13	94.82	92.69	91.07	100.05	105.07	100.75	98.07	102.18
28	111.07	104.68	100.85	97.08	94.78	92.72	91.03	99.87	104.88	100.57	98.42	102.35
29	110.85	104.50	100.65	97.04	---	92.70	90.96	99.70	104.61	100.38	99.09	102.38
30	110.67	104.30	100.42	97.03	---	92.57	90.92	99.48	104.30	100.18	99.94	102.46
31	110.51	---	100.18	97.00	---	92.51	---	99.24	---	99.47	100.67	---
MEAN	114.50	107.07	102.33	97.93	95.27	93.53	91.75	95.62	103.00	102.27	98.38	102.19

WTR YR 1982 MEAN 100.35 HIGH 90.82 LOW 117.64

DOUGHERTY COUNTY

313554084062601 Local number, 13L2.

LOCATION.--Lat 31°35'54", long 84°06'25", Hydrologic Unit 03130008, Malone and Gardner Avenue near main entrance to Turner Field, Albany.

Owner: City of Albany, Turner City.

AQUIFER.--Clayton Limestone.

WELL CHARACTERISTICS.--Drilled unused supply well, diameter 12 in. (30.5 cm) and 8 in. (20.3 cm), depth 760 ft (231.6 m), cased to 713 ft (217.3 m), open hole.

DATUM.--Altitude of land-surface is 212.84 ft (64.874 m) National Geodetic Vertical Datum of 1929.

Measuring point: Floor of recorder shelter, 3.2 ft (0.98 m) above land-surface datum.

REMARKS.--Well pumped and sounded to a depth of 760 ft (231.6 m), June 21, 1978: water-quality sample collected at conclusion of pumping. Borehole geophysical survey conducted March 17, 1977.

PERIOD OF RECORD.--December 1957 to December 1959, January 1962 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 38.19 ft (11.640 m) below land-surface datum, April 1, 1959; lowest, 153.04 ft (46.647 m) below land-surface datum, August 1, 1981.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	146.34	144.35	139.78	138.79	137.07	132.52	129.80	129.43	134.74	139.17	135.66	136.35
2	146.78	144.51	139.70	138.49	137.33	131.58	129.34	129.45	134.46	139.59	134.92	136.24
3	146.45	144.37	140.82	138.19	137.58	130.99	130.22	128.96	134.35	139.76	134.87	136.34
4	146.44	143.64	140.36	137.89	137.97	131.29	129.64	129.52	134.62	139.44	135.50	136.49
5	146.46	141.74	140.32	137.95	138.13	131.17	129.12	129.18	135.20	139.16	135.72	135.84
6	146.56	142.94	140.68	137.91	138.13	132.05	129.04	130.45	135.71	138.86	136.05	136.42
7	146.91	143.16	140.30	137.85	136.62	132.32	129.06	129.91	135.91	139.04	136.23	136.57
8	147.37	143.11	139.76	137.84	134.71	132.26	129.47	131.10	134.80	139.30	136.07	136.21
9	147.64	143.00	139.63	137.66	136.46	132.03	127.63	131.75	135.94	139.12	135.75	136.40
10	147.37	142.97	139.48	137.94	137.01	132.14	129.54	131.37	136.74	138.73	135.59	136.27
11	146.94	143.23	139.63	137.21	136.94	132.45	130.25	131.71	137.38	138.89	135.62	135.46
12	146.51	143.60	139.99	137.40	136.78	132.73	130.03	132.35	137.94	138.94	135.45	135.92
13	146.42	143.50	140.11	137.42	136.26	133.28	129.71	132.99	138.32	139.33	135.08	136.38
14	146.52	143.36	139.95	137.95	135.84	131.23	128.38	133.35	138.51	139.17	134.73	136.37
15	146.51	143.34	140.12	138.78	135.38	129.99	129.48	133.93	138.51	138.83	134.40	135.71
16	146.61	142.91	140.14	139.04	134.89	132.09	129.90	134.44	138.60	139.39	134.41	136.25
17	146.34	142.53	140.20	139.17	134.70	132.26	129.82	134.77	138.98	139.01	134.85	136.82
18	146.19	142.55	140.49	138.80	134.82	132.81	128.84	135.16	139.19	138.75	133.54	136.78
19	146.24	142.75	140.53	138.67	134.50	132.08	129.41	135.72	139.48	138.65	133.08	136.37
20	146.32	142.80	137.80	138.68	133.86	132.03	129.78	136.13	139.61	138.11	134.65	136.09
21	146.55	142.77	137.01	138.53	131.88	132.63	130.37	136.25	139.45	138.46	135.24	136.27
22	146.57	142.71	138.55	138.46	132.28	132.56	130.82	136.33	137.36	138.48	135.35	136.51
23	146.32	142.71	138.53	138.28	132.79	132.09	131.05	136.26	139.01	138.25	135.56	136.47
24	146.46	142.34	139.33	138.43	133.10	131.78	130.85	135.65	139.72	137.86	135.80	135.21
25	146.45	142.51	139.00	137.98	133.44	131.77	130.24	134.99	140.35	137.50	136.11	135.04
26	145.29	142.55	138.69	138.05	133.82	132.25	129.65	135.01	140.76	137.50	136.57	135.03
27	145.24	142.33	138.42	138.03	133.87	132.31	129.52	135.42	140.91	136.95	136.87	134.86
28	145.24	141.88	138.26	137.90	133.28	132.03	129.60	135.82	139.74	136.61	136.77	134.95
29	145.48	140.20	138.44	137.72	---	132.01	129.83	136.02	139.74	136.48	137.10	133.77
30	146.09	139.52	138.75	136.39	---	131.86	128.61	135.84	138.59	136.34	137.04	134.62
31	145.05	---	138.72	136.87	---	131.34	---	135.35	---	136.35	136.67	---
MEAN	146.38	142.80	139.47	138.08	135.34	132.00	129.63	133.37	137.82	138.45	135.52	135.93

WTR YR 1982 MEAN 137.09 HIGH 127.63 LOW 147.64

DOUGHERTY COUNTY

313748084002901 Local number, 13L3.

LOCATION (REVISED).—Lat 31°33'09", long 84°00'19", Hydrologic Unit 03130008, near northeast corner of Marine Corps Supply Center, Acree, Ga.
Owner: City of Albany and Dougherty County.

AQUIFER.—Principal artesian aquifer.

WELL CHARACTERISTICS.—Drilled unused supply well, diameter 6 in. (15.2 cm), depth 259 ft (78.9 m), cased to 206 ft (62.8 m), open hole.

DATUM.—Altitude of land-surface is 225 ft (68.6 m) National Geodetic Vertical Datum of 1929.
Measuring point: Floor of recorder shelter, 4.10 ft (1.250 m) above land-surface datum.

REMARKS.—Well pumped and sounded June 21, 1978; water-quality sample collected at conclusion of pumping. Borehole geophysical survey conducted March 17, 1977.

PERIOD OF RECORD.—January 1963 to current year.

EXTREMES FOR PERIOD OF RECORD.—Highest water level, 17.41 ft (5.307 m) below land-surface datum, April 2, 1965; lowest, 44.89 ft (13.682 m) below land-surface datum, December 13, 1981.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43.63	44.06	44.83	43.25	40.63	36.34	36.68	35.58	36.91	36.25	34.02	35.45
2	43.63	44.12	44.86	43.00	40.49	36.29	36.68	35.50	36.89	36.29	33.93	35.48
3	43.70	44.17	44.87	42.80	40.36	36.25	36.67	35.43	36.84	36.25	33.86	35.50
4	43.72	44.21	44.83	42.65	40.02	36.26	36.81	35.56	36.65	36.21	33.89	35.53
5	43.77	44.19	44.82	41.64	39.60	36.32	36.67	35.73	36.39	36.29	33.93	35.59
6	43.83	44.23	44.77	41.58	39.16	36.28	36.77	35.82	36.23	36.36	33.93	35.67
7	43.90	44.31	44.77	41.36	38.81	36.36	36.84	35.84	36.17	36.43	33.94	35.72
8	43.97	44.38	44.78	41.23	38.39	36.62	36.58	35.87	36.09	36.47	33.97	35.74
9	43.93	44.42	44.82	41.01	37.76	36.55	36.45	35.98	36.10	36.51	34.05	35.80
10	43.91	44.37	44.82	41.04	37.75	36.33	36.48	36.09	36.10	36.52	34.08	35.86
11	43.93	44.37	44.82	41.02	37.78	36.18	36.42	36.17	36.17	36.52	34.02	35.83
12	43.97	44.38	44.86	40.96	37.70	36.14	36.44	36.24	36.22	36.52	33.92	35.87
13	44.00	44.42	44.89	40.77	37.50	36.20	36.41	36.33	36.21	36.53	33.91	35.88
14	44.02	44.37	44.83	40.76	37.30	36.22	36.42	36.40	36.23	36.55	33.93	35.87
15	43.98	44.37	44.88	40.91	37.02	36.28	36.48	36.44	36.25	36.52	33.97	35.90
16	44.02	44.43	44.86	40.75	36.70	36.36	36.53	36.48	36.33	36.34	34.02	35.95
17	44.00	44.49	44.68	40.73	36.48	36.42	36.53	36.56	36.29	35.94	34.03	36.02
18	44.03	44.50	44.62	40.57	36.43	36.44	36.58	36.63	36.32	35.55	34.07	36.03
19	44.13	44.49	44.59	40.49	36.20	36.33	36.54	36.73	36.35	35.36	34.17	36.08
20	44.11	44.53	44.49	40.55	35.87	36.36	36.54	36.73	36.39	35.24	34.22	36.14
21	44.08	44.62	44.44	40.48	35.68	36.43	36.55	36.79	36.45	35.20	34.19	36.22
22	44.08	44.64	44.39	40.48	35.82	36.52	36.57	36.83	36.45	35.14	34.24	36.32
23	44.13	44.70	44.50	40.37	35.92	36.53	36.59	36.82	36.37	35.09	34.33	36.40
24	44.18	44.69	44.50	40.43	36.01	36.52	36.44	36.83	36.35	35.04	34.41	36.41
25	44.15	44.73	44.43	40.42	36.17	36.55	36.21	36.75	36.42	34.98	34.50	36.40
26	44.09	44.70	44.38	40.55	36.32	36.63	35.86	36.74	36.42	34.90	34.62	36.44
27	44.13	44.67	44.38	40.63	36.18	36.73	35.61	36.78	36.37	34.86	34.95	36.56
28	44.13	44.75	44.26	40.58	36.27	36.77	35.54	36.78	36.32	34.69	35.13	36.65
29	44.08	44.81	44.15	40.57	---	36.74	35.64	36.80	36.20	34.54	35.24	36.70
30	44.12	44.80	44.00	40.43	---	36.67	35.68	36.81	36.21	34.27	35.32	36.75
31	44.08	---	43.50	40.42	---	36.67	---	36.87	---	34.15	35.36	---
MEAN	43.98	44.46	44.60	41.05	37.51	36.43	36.41	36.35	36.36	35.73	34.26	36.03

WTR YR 1982 MEAN 38.61 HIGH 33.86 LOW 44.89

FULTON COUNTY

334207084254801 Local number, 10DD2.

LOCATION.--Lat 33°42'07", long 84°25'48", Hydrologic Unit 03130002, 0.25 mi (0.4 km) south of main entrance, 260 ft (79.2 m) west of Roosevelt Highway.
Owner: U.S. Army, Ft. McPherson.

AQUIFER.--Biotite gneiss.

WELL CHARACTERISTICS.--Drilled unused supply well, diameter 12 in. (30.5 cm), depth 338 ft (103.0 m), cased to 41 ft (12.5 m), open hole.

DATUM.--Altitude of land-surface datum is 1,013 ft (309 m), from topographic map.
Measuring point: At land-surface datum.

REMARKS.--Well pumped and sounded February 14, 1976, to a depth of 338 ft (103.0 m). Borehole geophysical survey conducted November 19, 1974.

PERIOD OF RECORD.--November 1973 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.10 ft (0.030 m) below land-surface datum, March 30, 1980; lowest, 7.52 ft (2.292 m) below land-surface datum, November 8, 1978.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.17	6.65	6.46	5.04	3.96	3.63	3.48	3.18	4.73	5.42	4.74	5.53
2	6.20	6.60	6.45	5.06	3.44	3.62	3.48	3.18	4.86	5.49	4.74	5.38
3	6.32	6.58	6.52	4.86	3.38	3.63	3.43	3.22	4.98	5.52	4.79	5.28
4	6.42	6.57	6.57	4.42	3.39	3.65	3.56	3.26	4.90	5.58	4.84	5.32
5	6.47	6.53	6.63	4.28	3.38	3.67	3.38	3.32	4.83	5.62	4.90	5.38
6	6.40	6.48	6.60	4.30	3.42	3.34	3.21	3.34	4.90	5.62	4.94	5.40
7	6.45	6.53	6.52	4.42	3.44	3.23	3.36	3.30	4.95	5.58	4.99	5.40
8	6.55	6.60	6.49	4.54	3.40	3.47	3.28	3.30	4.97	5.46	5.01	5.41
9	6.63	6.63	6.56	4.48	3.50	3.48	3.24	3.42	5.00	5.40	5.02	5.44
10	6.65	6.62	6.54	4.59	3.59	3.49	3.34	3.50	5.06	5.38	5.08	5.43
11	6.66	6.60	6.52	4.66	3.62	3.50	3.38	3.56	5.11	5.31	5.12	5.42
12	6.69	6.63	6.56	4.61	3.82	3.52	3.41	3.68	5.14	5.28	5.13	5.49
13	6.75	6.65	6.60	4.50	3.52	3.55	3.40	3.76	5.15	5.30	5.16	5.53
14	6.75	6.61	6.47	4.48	3.46	3.22	3.41	3.88	5.17	5.33	5.20	5.50
15	6.70	6.53	6.32	4.65	3.41	3.01	3.46	3.94	5.20	5.38	5.25	5.45
16	6.57	6.48	6.43	4.70	3.34	3.16	3.52	4.02	5.19	5.30	5.33	5.46
17	6.52	6.52	6.43	4.74	3.37	3.03	3.52	4.08	5.23	5.26	5.34	5.50
18	6.48	6.59	6.41	4.65	3.43	3.22	3.54	4.12	5.26	5.24	5.32	5.50
19	6.60	6.55	6.48	4.56	3.48	3.23	3.52	4.10	5.34	5.20	5.30	5.53
20	6.67	6.56	6.49	4.47	3.52	3.29	3.41	4.16	5.40	5.20	5.28	5.58
21	6.67	6.64	6.40	4.38	3.64	3.33	3.30	4.32	5.49	5.22	5.22	5.64
22	6.63	6.64	6.28	4.29	3.72	3.33	3.40	4.40	5.48	4.97	5.25	5.66
23	6.58	6.64	6.29	4.20	3.73	3.36	3.50	4.42	5.49	4.85	5.29	5.79
24	6.63	6.58	6.38	4.14	3.73	3.39	3.45	4.42	5.49	4.94	5.33	5.80
25	6.60	6.66	6.12	4.17	3.75	3.41	3.20	4.40	5.52	4.98	5.32	5.76
26	6.48	6.68	5.78	4.26	3.62	3.45	2.92	4.43	5.58	4.98	5.34	5.76
27	6.52	6.65	5.73	4.36	3.58	3.48	2.80	4.48	5.55	4.28	5.34	5.84
28	6.58	6.69	5.78	4.30	3.55	3.50	2.88	4.54	5.50	4.22	5.38	5.94
29	6.60	6.72	5.81	4.26	---	3.48	3.02	4.59	5.39	4.54	5.48	6.02
30	6.65	6.62	5.84	4.42	---	3.46	3.14	4.63	5.37	4.72	5.56	6.14
31	6.68	---	5.46	4.41	---	3.34	---	4.69	---	4.75	5.56	---
MEAN	6.56	6.60	6.32	4.49	3.54	3.40	3.33	3.92	5.21	5.17	5.18	5.58

WTR YR 1982 MEAN 4.95 HIGH 2.80 LOW 6.75

GLYNN COUNTY

310726081285801 Local number, 34G1.

LOCATION.--Lat 31°07'26", long 81°28'58", Hydrologic Unit 03070203, Babcock and Wilcox yards near Newcastle Street and King Shrimp Co. in Brunswick.

Owner: Babcock and Wilcox Co.

AQUIFER.--Principal artesian aquifer.

WELL CHARACTERISTICS.--Drilled unused industrial well, diameter 18 in. (45.7 cm), depth 1,006 ft (306.6 m), cased to 589 ft (179.5 m), open hole.

DATUM.--Altitude of land-surface is 9 ft (2.7 m) National Geodetic Vertical Datum of 1929.

Measuring point: Center of recorder, 2.0 ft (0.61 m) above land-surface datum.

REMARKS.--Borehole geophysical survey conducted May 28, 1964.

PERIOD OF RECORD.--December 1962 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 24.93 ft (7.600 m) above land-surface datum, December 12, 1960; lowest, 3.47 ft (1.058 m) above land-surface datum, July 21, 1977.

WATER LEVEL, IN FEET ABOVE LAND SURFACE DATUM , WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.75	5.15	5.00	7.50	6.00	6.10	6.00	6.20	5.30	8.00	10.20	9.60
2	4.70	4.75	4.50	7.80	5.40	6.20	5.84	6.30	5.00	7.90	10.30	9.90
3	4.85	4.40	4.50	7.60	5.80	6.20	5.85	6.10	5.10	8.10	10.30	9.80
4	5.00	4.30	4.70	6.75	5.90	6.20	6.04	6.00	5.30	8.40	10.10	10.00
5	4.80	4.40	5.20	6.10	5.50	6.10	6.12	5.80	5.60	8.50	9.90	10.00
6	4.50	4.60	5.40	6.20	5.60	6.20	5.99	5.80	5.80	8.20	9.60	10.00
7	4.55	4.90	4.70	6.20	5.70	6.90	5.91	5.80	5.70	7.40	9.60	9.90
8	4.55	5.05	4.50	6.30	5.80	6.20	6.24	6.20	5.40	7.10	9.80	9.90
9	4.50	5.00	4.65	6.40	6.00	5.70	6.35	6.30	5.10	7.00	9.60	9.90
10	4.75	4.70	4.70	6.40	5.80	5.90	6.30	6.30	5.20	7.00	9.60	9.90
11	5.15	5.00	5.00	6.10	5.80	5.80	6.49	6.00	5.10	7.00	9.50	10.20
12	4.80	5.10	5.00	5.50	5.90	5.80	6.30	5.80	5.20	7.30	9.50	10.20
13	4.75	4.75	5.25	6.00	6.10	5.90	6.10	5.70	5.20	7.40	9.70	10.10
14	4.65	4.85	5.15	5.70	6.20	6.30	6.10	5.70	5.20	7.80	9.70	10.30
15	4.50	5.25	5.10	5.40	6.20	6.10	6.00	5.80	5.10	8.00	9.70	10.60
16	4.40	5.00	5.00	6.30	6.10	5.90	6.10	5.80	5.20	8.10	9.50	10.80
17	4.40	4.60	5.05	6.60	6.10	5.80	6.20	5.60	5.20	8.30	8.90	10.70
18	4.70	4.60	4.85	6.50	6.00	5.70	6.10	5.10	5.40	8.10	8.90	11.00
19	4.15	4.50	4.90	5.90	5.60	5.80	6.00	5.10	5.90	7.90	8.90	11.30
20	4.00	4.55	4.95	5.70	6.00	5.89	5.90	5.20	6.00	7.90	8.80	11.80
21	4.05	4.70	5.10	5.70	6.50	5.98	6.10	5.30	6.10	7.90	9.20	10.90
22	4.15	5.10	4.85	5.70	6.30	5.92	6.20	5.50	6.50	8.10	9.70	11.10
23	4.30	4.90	4.90	5.90	6.00	5.85	6.00	5.60	6.90	8.20	9.30	11.10
24	4.45	4.80	5.75	6.00	6.00	6.01	6.20	5.70	7.10	8.50	9.40	11.10
25	4.75	4.70	7.50	6.10	6.00	6.16	6.50	5.50	7.60	8.60	9.40	11.30
26	4.75	4.75	8.80	6.00	5.91	6.05	6.40	5.40	7.80	8.50	9.70	11.60
27	4.50	5.15	9.75	5.60	6.04	6.02	6.00	5.40	8.00	8.70	9.80	11.70
28	4.90	5.20	9.50	5.50	6.07	6.10	6.10	5.10	8.00	9.20	10.00	12.40
29	5.15	5.35	8.60	6.00	---	6.03	6.20	5.30	8.10	9.10	9.90	13.30
30	5.00	5.35	8.60	6.10	---	5.98	6.20	5.40	8.00	9.10	9.70	13.70
31	4.85	---	7.70	6.50	---	5.98	---	5.50	---	9.90	9.60	---
MEAN	4.62	4.85	5.78	6.20	5.94	6.02	6.13	5.69	6.04	8.10	9.61	10.80

WTR YR 1982 MEAN 6.65 MAX 13.70 MIN 4.00

GLYNN COUNTY

311007081301702 Local number, 33H133.

LOCATION.--Lat 31°10'07", long 81°30'17", Hydrologic Unit 03070203, near the intersection of Newcastle and Oak Streets to the south of the cemetery in Brunswick.

Owner: U.S. Geological Survey, test well 6.

AQUIFER.--Principal artesian aquifer.

WELL CHARACTERISTICS.--Drilled observation well, diameter 4 in. (10.1 cm), depth 790 ft (240.8 m), cased to 520 ft (158.5 m), open hole.

DATUM.--Altitude of land-surface is 7 ft (2.1 m) National Geodetic Vertical Datum of 1929.

Measuring point: Floor of recorder shelter, 3.0 ft (0.91 m) above land-surface datum.

REMARKS.--Well pumped monthly; water-quality samples collected at conclusion of pumping. Borehole geophysical survey conducted September 26, 1977. Well was flowing September 29,30.

PERIOD OF RECORD.--January 1963 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 9.07 ft (2.765 m) above land-surface datum, December 26, 1965; lowest, 21.87 ft (6.666 m) below land-surface datum, July 22, 1977.

WATER LEVEL, IN FEET ABOVE OR BELOW (-) LAND SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	-20.40	-20.39	-19.80	-16.50	-19.32	-18.21	-19.45	-19.50	-19.54	-13.17	-5.43	-10.42
2	-20.50	-20.27	-19.95	-17.25	-19.02	-18.06	-19.86	-19.46	-19.92	-13.12	-5.31	-9.97
3	-20.90	-20.32	-20.13	-17.75	-18.32	-18.50	-19.34	-19.20	-19.75	-13.08	-5.78	-10.64
4	-20.85	-20.71	-19.83	-18.00	-18.84	-18.73	-18.83	-19.60	-19.64	-13.00	-7.52	-10.76
5	-20.72	-20.28	-19.75	-18.15	-19.23	-19.24	-19.28	-19.70	-19.34	-12.88	-9.52	-10.55
6	-20.80	-20.29	-20.05	-18.53	-19.04	-19.28	-18.88	-19.74	-19.40	-14.72	-10.14	-10.93
7	-21.04	-20.18	-20.25	-18.36	-18.74	-19.03	-18.61	-19.52	-19.38	-16.40	-10.29	-10.80
8	-20.94	-20.08	-19.90	-18.56	-18.46	-19.41	-18.02	-19.38	-19.54	-17.16	-10.06	-11.38
9	-21.28	-20.15	-20.40	-17.76	-18.55	-19.21	-18.49	-18.90	-20.00	-17.39	-9.95	-11.16
10	-21.07	-19.82	-20.35	-17.68	-18.48	-19.32	-18.02	-18.71	-20.02	-17.63	-10.24	-10.82
11	-21.00	-19.52	-20.65	-18.32	-19.17	-19.52	-17.98	-19.00	-20.00	-15.49	-10.72	-10.94
12	-21.09	-19.74	-20.60	-18.65	-19.24	-19.79	-19.04	-19.26	-20.18	-13.00	-10.66	-10.98
13	-21.14	-20.20	-20.45	-18.96	-18.73	-19.56	-19.02	-19.32	-20.14	-12.15	-11.46	-10.62
14	-21.14	-20.32	-20.30	-18.86	-18.15	-19.06	-18.60	-19.42	-18.66	-11.70	-11.56	-9.46
15	-20.15	-20.64	-20.50	-18.78	-18.78	-18.81	-18.94	-19.88	-19.64	-10.79	-11.18	-8.66
16	-20.54	-20.42	-21.25	-18.58	-18.82	-19.04	-19.34	-19.80	-19.53	-9.95	-11.37	-8.55
17	-20.02	-20.57	-21.05	-18.48	-18.82	-18.71	-18.94	-19.85	-19.57	-10.10	-11.80	-8.33
18	-20.10	-20.63	-21.20	-18.74	-19.28	-19.61	-19.36	-19.98	-18.94	-12.77	-12.24	-8.75
19	-20.24	-20.36	-21.30	-18.28	-18.63	-19.07	-19.16	-19.76	-18.98	-12.58	-11.96	-8.65
20	-20.48	-20.16	-21.20	-18.50	-18.44	-18.94	-19.62	-19.46	-18.66	-12.27	-12.11	-8.80
21	-20.45	-20.17	-21.05	-18.42	-18.46	-18.90	-18.14	-19.46	-16.47	-11.97	-11.70	-8.81
22	-20.78	-20.14	-21.05	-18.46	-18.19	-18.78	-18.66	-19.36	-14.66	-12.13	-11.94	-8.90
23	-20.87	-20.14	-20.60	-18.96	-17.45	-19.46	-19.38	-19.48	-14.59	-11.13	-11.84	-9.14
24	-20.67	-20.10	-17.25	-18.28	-16.81	-19.07	-19.44	-19.39	-14.06	-10.96	-11.20	-9.20
25	-20.51	-20.27	-11.50	-17.92	-17.85	-18.78	-19.24	-19.45	-13.56	-11.17	-9.96	-8.71
26	-20.14	-20.38	-11.15	-17.82	-18.31	-18.78	-19.27	-19.57	-13.40	-10.16	-9.54	-8.03
27	-20.18	-20.08	-11.00	-18.14	-17.89	-18.94	-18.33	-19.88	-13.48	-9.46	-10.05	-2.74
28	-20.32	-20.08	-11.25	-18.35	-17.88	-19.02	-18.76	-20.20	-13.22	-8.68	-9.64	.64
29	-20.58	-19.83	-12.00	-17.61	---	-19.07	-18.89	-20.00	-13.23	-8.53	-9.86	---
30	-20.60	-20.04	-13.50	-18.48	---	-19.31	-19.41	-19.85	-13.11	-7.02	-9.43	---
31	-20.28	---	-15.00	-18.54	---	-19.42	---	-19.47	---	-6.15	-9.60	---
MEAN	-20.64	-20.21	-18.52	-18.25	-18.53	-19.05	-18.94	-19.53	-17.69	-12.15	-10.13	-9.15

WTR YR 1982 MEAN -16.93 MAX .64 MIN -21.30

LAMAR COUNTY

330858084122901 Local number, 1221.

LOCATION.--Lat 33°08'58", long 84°12'29", Hydrologic Unit 03130005, north of Milner, Ga., at the gas storage center.
  Owner: Dixie Pipeline Co.

AQUIFER.--Residuum.

WELL CHARACTERISTICS.--Bored observation well, diameter 24 in. (61.0 cm), depth 31 ft (9.4 m), cased to 31 ft (9.4 m).

DATUM.--Altitude of land-surface is 852 ft (259.7 m) National Geodetic Vertical Datum of 1929.
  Measuring point: Floor of recorder shelter, 2.0 ft (0.61 m) above land-surface datum.

REMARKS.--None.

PERIOD OF RECORD.--January 1967 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 5.37 ft (1.637 m) below land-surface datum, April 9, 1973; lowest, 15.20 ft (4.633 m) below land-surface datum, December 1, 1981.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.63	14.61	15.20	12.62	10.23	8.74	9.46	7.55	9.41	10.42	10.96	11.61
2	14.65	14.62	15.13	12.42	10.16	8.76	9.49	7.58	9.46	10.46	11.00	11.61
3	14.67	14.64	15.00	12.18	9.91	8.77	9.51	7.66	9.51	10.48	11.04	11.62
4	14.69	14.68	14.88	11.92	9.62	8.80	9.55	7.75	9.54	10.51	11.08	11.66
5	14.71	14.71	14.80	11.68	9.39	8.86	9.56	7.84	9.58	10.53	11.09	11.68
6	14.74	14.74	14.75	11.46	9.23	8.90	9.54	7.94	9.64	10.54	11.06	11.72
7	14.76	14.78	14.72	11.33	9.16	8.90	9.58	8.00	9.68	10.56	11.02	11.74
8	14.78	14.81	14.70	11.23	9.09	8.96	9.56	8.04	9.72	10.60	11.00	11.78
9	14.80	14.85	14.71	11.09	9.02	8.97	9.52	8.12	9.76	10.62	10.98	11.80
10	14.81	14.87	14.73	11.03	9.03	8.91	9.57	8.20	9.80	10.64	10.96	11.83
11	14.80	14.89	14.75	10.98	9.10	8.86	9.62	8.28	9.85	10.68	11.00	11.82
12	14.79	14.91	14.77	10.90	9.12	8.86	9.65	8.37	9.89	10.70	11.01	11.83
13	14.80	14.94	14.79	10.79	9.11	8.88	9.66	8.46	9.89	10.74	11.04	11.88
14	14.81	14.96	14.82	10.78	9.17	8.93	9.68	8.53	9.92	10.77	11.08	11.92
15	14.84	14.98	14.76	10.83	9.20	8.96	9.72	8.60	9.98	10.80	11.11	11.94
16	14.85	15.00	14.62	10.79	9.10	8.96	9.74	8.66	10.00	10.84	11.14	11.98
17	14.86	15.01	14.46	10.79	8.90	8.95	9.77	8.70	10.03	10.86	11.17	12.01
18	14.88	15.04	14.33	10.71	8.74	8.97	9.77	8.78	10.06	10.88	11.19	12.04
19	14.90	15.05	14.24	10.57	8.62	8.99	9.80	8.82	10.10	10.91	11.22	12.07
20	14.91	15.06	14.18	10.48	8.46	8.99	9.66	8.88	10.14	10.89	11.25	12.10
21	14.93	15.07	14.13	10.45	8.36	9.02	9.34	8.92	10.18	10.92	11.28	12.14
22	14.95	15.08	14.08	10.45	8.40	9.06	9.04	8.98	10.22	10.95	11.30	12.17
23	14.96	15.10	14.06	10.37	8.48	9.09	8.84	9.03	10.26	11.01	11.33	12.20
24	14.98	15.11	14.05	10.28	8.52	9.12	8.69	9.06	10.29	11.04	11.35	12.24
25	14.98	15.13	13.96	10.24	8.58	9.16	8.50	9.09	10.34	11.00	11.38	12.26
26	14.94	15.14	13.76	10.22	8.67	9.22	8.20	9.14	10.36	10.98	11.40	12.28
27	14.83	15.15	13.54	10.24	8.70	9.29	7.86	9.18	10.36	10.97	11.44	12.32
28	14.74	15.16	13.34	10.24	8.70	9.36	7.60	9.23	10.34	10.93	11.47	12.36
29	14.65	15.18	13.18	10.25	---	9.40	7.53	9.28	10.36	10.90	11.51	12.41
30	14.61	15.19	12.95	10.25	---	9.42	7.54	9.32	10.37	10.87	11.55	12.44
31	14.60	---	12.84	10.21	---	9.44	---	9.36	---	10.89	11.58	---
MEAN	14.80	14.95	14.33	10.90	9.03	9.02	9.19	8.56	9.97	10.77	11.19	11.98

WTR YR 1982 MEAN 11.24 HIGH 7.53 LOW 15.20

LAURENS COUNTY

322652083033001 Local number, 21T1.

LOCATION.--Lat 32°26'52", long 83°03'30", Hydrologic Unit 03070102, approximately 1.8 mi (2.8 km) northeast of Dexter, Ga.
Owner: Danny Hogan.

AQUIFER.--Principal artesian aquifer.

WELL CHARACTERISTICS.--Drilled unused domestic well, diameter 4 in. (10.1 cm), depth 123 ft (37.5 m), cased to 89 ft (27.1 m), open hole.

DATUM.--Altitude of land-surface datum is 252 ft (76.8 m), from barometric levels.
Measuring point: Floor of recorder shelter, 2.57 ft (0.783 m) above land-surface datum.

REMARKS.--Borehole geophysical survey conducted November 1973. Water levels for periods of missing recorder record, Nov. 30 to Jan. 18 and April 8 to May 3, were estimated.

PERIOD OF RECORD.--March 1964 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 24.11 ft (7.349 m) below land-surface datum, February 14, 1972; lowest, 39.58 ft (12.064 m) below land-surface datum, November 12, 1968.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37.19	37.31	37.38	31.84	26.35	26.05	28.15	26.24	29.15	30.31	30.14	31.36
2	37.20	37.25	37.26	31.58	26.41	26.11	28.23	26.32	29.24	30.21	30.05	31.46
3	37.30	37.22	37.14	31.31	26.31	26.18	28.29	26.40	29.33	30.10	30.02	31.55
4	37.37	37.19	37.02	30.88	26.08	26.26	28.41	26.48	29.33	30.06	30.04	31.68
5	37.42	37.16	36.91	30.36	25.85	26.37	28.10	26.58	29.30	30.06	30.12	31.84
6	37.44	37.11	36.80	29.99	25.68	26.43	27.84	26.70	29.34	30.13	30.20	32.00
7	37.45	37.12	36.69	29.67	25.63	26.42	27.57	26.81	29.41	30.22	30.24	32.12
8	37.51	37.18	36.73	29.25	25.58	26.56	27.31	26.89	29.47	30.29	30.29	32.23
9	37.56	37.20	36.77	28.84	25.48	26.63	26.95	27.06	29.54	30.34	30.21	32.33
10	37.58	37.18	36.81	28.56	25.45	26.61	26.75	27.24	29.64	30.41	30.07	32.32
11	37.61	37.17	36.85	28.44	25.51	26.56	26.65	27.41	29.76	30.44	29.93	32.19
12	37.63	37.18	36.89	28.32	25.54	26.54	26.55	27.60	29.87	30.48	29.83	31.90
13	37.68	37.22	36.93	28.05	25.49	26.56	26.45	27.78	29.88	30.54	29.76	31.49
14	37.71	37.21	36.81	27.64	25.50	26.62	26.35	27.95	29.89	30.62	29.74	31.19
15	37.72	37.17	36.52	27.23	25.48	26.67	26.26	28.13	29.94	30.71	29.77	30.99
16	37.71	37.15	36.23	26.82	25.41	26.74	26.17	28.33	30.01	30.78	29.84	30.87
17	37.74	37.16	35.94	26.42	25.29	26.81	26.08	28.50	30.10	30.78	29.89	30.84
18	37.77	37.21	35.52	26.32	25.30	26.86	26.04	28.64	30.11	30.81	29.91	30.84
19	37.84	37.23	35.11	26.22	25.35	26.92	25.90	28.78	30.19	30.86	[illegible]	30.84
20	37.93	37.23	34.71	26.20	25.36	26.97	25.81	28.85	30.32	30.94	30.03	30.83
21	37.95	37.29	34.31	26.17	25.33	27.06	25.89	28.92	30.46	31.04	30.04	30.82
22	37.95	37.31	34.13	26.18	25.41	27.17	25.97	28.99	30.58	31.11	30.09	30.86
23	37.94	37.33	34.01	26.13	25.54	27.28	26.05	29.10	30.69	31.07	30.20	30.94
24	37.98	37.27	33.89	26.09	25.61	27.35	26.13	29.22	30.80	30.96	30.30	30.99
25	37.96	37.32	33.63	26.11	25.69	27.43	26.21	29.26	30.91	30.84	30.40	31.00
26	37.75	37.35	33.31	26.15	25.85	27.54	26.29	29.12	31.01	30.76	30.52	31.02
27	37.61	37.35	32.93	26.26	25.89	27.70	26.22	29.03	30.99	30.72	30.65	31.11
28	37.50	37.36	32.71	26.31	25.95	27.86	26.15	28.99	30.94	30.65	30.78	31.23
29	37.42	37.40	32.47	26.35	---	27.95	26.08	29.00	30.75	30.51	30.93	31.32
30	37.39	37.44	32.36	26.36	---	28.01	26.16	29.03	30.49	30.38	31.10	31.41
31	37.36	---	32.10	26.31	---	28.08	---	29.09	---	30.25	31.24	---
MEAN	37.62	37.24	35.38	27.82	25.65	26.91	26.70	28.01	30.05	30.56	30.20	31.39

WTR YR 1982 MEAN 30.65 HIGH 25.29 LOW 37.98

LIBERTY COUNTY

314343081251901 Local number, 34M54.

LOCATION.--Lat 31°43'43", long 81°25'19", Hydrologic Unit 03060204, Riceboro, Ga., near entrance to Interstate Paper Co.
Owner: U.S. Geological Survey, test well 2.

AQUIFER.--Principal artesian aquifer.

WELL CHARACTERISTICS.--Drilled observation well, diameter 4 in. (10.1 cm), depth 802 ft (244.4 m), cased to 467 ft (142.3 m), open hole.

DATUM.--Altitude of land-surface is 19 ft (5.8 m) National Geodetic Vertical Datum of 1929.
Measuring point: Floor of recorder shelter, 3.4 ft (1.04 m) above land-surface datum.

REMARKS.--Well pumped July 11, 1979; water-quality sample collected at conclusion of pumping. Borehole geophysical survey conducted June 15, 1976.

PERIOD OF RECORD.--February 1967 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.85 ft (0.259 m) below land-surface datum, February 5, 1967; lowest, 24.30 ft (7.407 m) below land-surface datum, December 20, 1981.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23.15	23.88	23.60	22.48	22.90	22.85	20.50	21.85	20.55	20.00	19.35	21.80
2	23.20	23.80	23.55	22.70	22.93	22.78	21.05	22.05	21.35	19.95	19.70	21.70
3	23.40	23.78	23.55	22.70	22.80	22.70	21.65	22.10	21.85	19.80	20.35	21.60
4	23.50	23.90	23.65	22.65	22.85	22.64	21.80	22.25	22.00	19.60	20.70	21.60
5	23.65	23.82	23.80	22.85	22.95	22.70	21.80	22.30	22.05	20.00	20.90	21.68
6	23.58	23.75	23.85	22.75	23.00	22.65	21.90	22.32	22.20	20.85	21.05	21.60
7	23.50	23.75	23.87	22.80	23.10	22.50	22.08	22.25	21.80	21.45	21.20	21.50
8	23.50	23.87	23.83	22.90	23.00	22.43	21.80	22.18	20.95	21.75	21.30	21.25
9	23.60	23.95	23.85	22.85	22.40	22.65	21.75	22.20	20.50	21.80	21.30	21.25
10	23.50	24.00	23.85	22.90	22.65	22.75	22.00	22.20	20.10	21.70	21.35	21.20
11	23.50	23.92	23.90	23.00	22.75	22.62	22.08	22.20	19.95	21.65	21.40	21.15
12	23.50	24.10	24.00	22.95	22.80	22.65	22.12	22.20	19.70	21.70	21.38	21.15
13	23.60	23.95	23.95	22.70	22.80	22.75	22.15	22.00	19.60	21.75	21.35	21.15
14	23.75	24.00	24.05	22.35	22.95	22.77	22.10	21.97	20.10	21.70	21.42	21.12
15	23.80	23.90	23.75	22.55	22.97	22.75	22.10	22.25	21.20	21.65	21.40	21.08
16	23.62	23.70	23.95	22.55	22.82	22.77	22.15	22.30	21.65	21.65	21.50	21.05
17	23.62	23.55	23.95	22.65	22.70	22.80	22.10	22.20	21.80	21.70	21.60	21.05
18	23.60	23.75	23.95	22.68	22.77	22.88	22.05	22.15	21.80	21.60	21.65	21.00
19	23.75	23.80	24.13	22.60	22.80	22.90	21.90	22.20	21.95	21.60	21.60	20.90
20	24.00	23.80	24.30	22.60	22.65	22.83	22.00	22.15	22.15	21.60	21.60	20.45
21	24.00	23.90	24.25	22.70	22.47	22.83	22.22	22.15	22.35	21.60	21.67	19.75
22	23.90	23.95	24.10	22.72	22.60	22.75	22.15	22.25	22.40	21.70	21.62	19.25
23	23.80	23.95	23.45	22.55	22.75	22.65	22.30	22.20	22.25	21.50	21.70	19.10
24	23.85	23.85	22.65	22.65	22.60	22.67	22.25	22.25	22.30	21.60	21.80	18.98
25	23.85	24.00	22.20	22.70	22.75	22.60	22.05	22.25	22.40	21.62	21.75	18.95
26	23.80	24.18	21.85	22.60	22.83	22.60	21.90	22.40	22.45	21.05	21.75	18.98
27	23.82	24.15	21.60	22.80	22.80	22.70	21.85	21.95	21.90	20.25	21.70	19.02
28	23.55	23.95	21.45	22.90	22.80	22.90	22.00	21.10	20.95	19.90	21.68	19.02
29	23.70	23.90	21.55	22.95	---	22.15	22.22	20.75	20.35	19.75	21.70	19.00
30	23.85	23.75	22.25	22.95	---	21.10	22.30	20.55	20.05	19.60	21.78	19.02
31	23.90	---	22.40	22.80	---	20.70	---	20.35	---	19.45	21.85	---
MEAN	23.66	23.89	23.39	22.73	22.79	22.58	21.94	21.98	21.36	21.02	21.33	20.55

WTR YR 1982 MEAN 22.27 HIGH 18.95 LOW 24.30

LIBERTY COUNTY

315214081235301 Local number, 34N89.

LOCATION.--Lat 31°52'14", long 81°23'53", Hydrologic Unit 03060204, north of Midway, Ga., near intersection of Georgia Highway 196 and U.S. Highway 17.

Owner: U.S. Geological Survey, test well 1.

AQUIFER.--Principal artesian aquifer.

WELL CHARACTERISTICS.--Drilled observation well, diameter 4 in. (10.1 cm), depth 789 ft (240.5 m), cased to 410 ft (125.0 m), open hole.

DATUM.--Altitude of land-surface is 17 ft (5.1 m) National Geodetic Vertical Datum of 1929.

Measuring point: Top of 4 in. (10.1 cm) casing, 1.33 ft (0.405 m) above land-surface datum.

REMARKS.--Well pumped July 11, 1979; water-quality sample collected at conclusion of pumping. Borehole geophysical survey conducted June 15, 1976.

PERIOD OF RECORD.--February 1967 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 2.34 ft (0.713 m) below land-surface datum, March 6, 1967; lowest, 22.28 ft (6.791 m) below land-surface datum, August 10, 11, 1981.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21.67	21.90	21.50	20.85	20.27	20.20	20.00	19.42	19.65	19.87	19.33	19.55
2	21.55	21.82	21.50	20.95	20.25	20.10	19.90	19.40	19.65	19.90	19.25	19.50
3	21.68	21.80	21.60	20.82	20.15	20.03	19.75	19.38	19.68	19.85	19.18	19.50
4	21.78	21.82	21.58	20.75	20.30	20.00	19.80	19.38	19.68	19.80	19.20	19.50
5	21.85	21.75	21.65	20.85	20.30	20.00	19.65	19.45	19.60	19.80	19.25	19.60
6	21.80	21.55	21.65	20.72	20.25	19.93	19.60	19.45	19.70	19.80	19.28	19.60
7	21.70	21.68	21.55	20.65	20.35	19.90	19.80	19.40	19.75	19.75	19.32	19.60
8	21.75	21.75	21.45	20.65	20.30	20.72	19.60	19.32	19.80	19.70	19.33	19.55
9	21.80	21.85	21.50	20.50	20.08	20.30	19.50	19.40	19.80	19.65	19.40	19.55
10	21.75	21.72	21.50	20.60	20.15	20.20	19.65	19.45	19.78	19.63	19.43	19.45
11	21.80	21.70	21.55	20.62	20.30	20.05	19.60	19.48	19.80	19.60	19.43	19.40
12	21.80	21.70	21.60	20.60	20.20	20.02	19.65	19.52	19.80	19.60	19.38	19.40
13	21.85	21.72	21.65	20.40	20.20	20.02	19.60	19.57	19.78	19.60	19.32	19.40
14	21.82	21.65	21.45	20.25	20.32	20.05	19.52	19.58	19.78	19.57	19.32	19.35
15	21.75	21.57	21.30	20.45	20.25	20.00	19.55	19.60	19.80	19.57	19.35	19.25
16	21.70	21.45	21.45	20.45	20.05	20.05	19.60	19.65	19.85	19.60	19.40	19.20
17	21.75	21.50	21.50	20.53	19.85	20.02	19.57	19.70	19.85	19.55	19.37	19.25
18	21.65	21.58	21.43	20.50	20.05	20.10	19.55	19.70	19.68	19.55	19.30	19.25
19	21.80	21.58	21.52	20.45	20.10	20.02	19.55	19.75	19.75	19.50	19.35	19.20
20	21.90	21.50	21.63	20.42	20.03	19.95	19.45	19.75	19.80	19.45	19.43	19.20
21	21.90	21.55	21.57	20.35	19.85	19.97	19.50	19.75	19.85	19.45	19.35	19.20
22	21.84	21.60	21.45	20.45	20.05	20.05	19.52	19.80	19.90	19.50	19.38	19.25
23	21.75	21.60	21.40	20.28	20.15	20.05	19.65	19.85	19.95	19.48	19.45	19.25
24	21.85	21.48	21.45	20.22	20.10	20.05	19.60	19.85	19.90	19.50	19.45	19.10
25	21.85	21.62	21.35	20.35	20.20	20.00	19.42	19.80	19.95	19.53	19.40	18.95
26	21.75	21.75	21.28	20.30	20.30	20.00	19.25	19.75	19.98	19.50	19.45	18.85
27	21.75	21.75	21.15	20.45	20.15	20.15	19.23	19.78	20.00	19.48	19.45	18.85
28	21.80	21.75	21.15	20.42	20.17	20.30	19.30	19.80	19.95	19.45	19.50	18.90
29	21.80	21.80	21.10	20.42	---	20.25	19.37	19.80	19.85	19.45	19.60	18.85
30	21.90	21.68	21.12	20.35	---	20.20	19.40	19.78	19.82	19.45	19.65	18.80
31	21.95	---	20.90	20.15	---	20.10	---	19.75	---	19.40	19.65	---
MEAN	21.78	21.67	21.43	20.51	20.17	20.09	19.57	19.61	19.80	19.60	19.39	19.28

WTR YR 1982 MEAN 20.24 HIGH 18.80 LOW 21.95

LONG COUNTY

313844081361401 Local number, 33M4.

LOCATION.--Lat 31°38'44", long 81°36'14", Hydrologic Unit 03070106, 9 mi (14.4 km) southeast of Ludowici, at Hope Cemetery.
Owner: U.S. Geological Survey, test well 3.

AQUIFER.--Principal artesian aquifer.

WELL CHARACTERISTICS.--Drilled observation well, diameter 4-3 in (10.1-7.6 cm), depth 872 ft (265.8 m), cased to 538 ft (164.0 m), open hole.

DATUM.--Altitude of land-surface is 61.2 ft (18.65 m) National Geodetic Vertical Datum of 1929.
Measuring point: Top of recorder shelter, 3.5 ft (1.07 m) above land-surface datum.

REMARKS.--Well pumped and sounded June 17, 1976, to depth of 861 ft (262.4 m); water-quality sample collected. Borehole geophysical survey conducted July 28, 1976.

PERIOD OF RECORD.--January 1968 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 34.04 ft (10.375 m) below land-surface datum, January 14, 1968; lowest, 53.22 ft (16.221 m) below land-surface datum, July 27, 1981.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52.17	52.93	52.72	49.83	50.92	51.45	49.46	50.70	50.92	49.89	50.11	49.08
2	52.06	52.89	52.64	49.78	50.94	51.37	49.40	50.70	50.92	49.77	50.04	48.82
3	52.20	52.85	52.74	49.60	50.88	51.27	49.34	50.68	50.92	49.53	50.03	48.60
4	52.30	52.86	52.80	49.34	51.00	51.18	49.44	50.70	50.90	49.26	50.09	48.46
5	52.37	52.76	52.82	49.36	51.07	51.14	49.39	50.76	50.82	49.06	50.16	48.38
6	52.35	52.62	52.90	49.24	51.08	51.06	49.48	50.79	50.88	48.92	50.19	48.29
7	52.28	52.66	52.91	49.14	51.18	50.97	49.75	50.73	50.95	48.80	50.22	48.16
8	52.32	52.80	52.77	49.21	51.17	51.27	49.64	50.66	50.94	48.69	50.22	48.04
9	52.42	52.88	52.78	49.17	51.02	51.33	49.66	50.72	50.92	48.63	50.24	47.90
10	52.42	52.82	52.77	49.38	51.07	51.20	49.86	50.78	50.88	48.62	50.26	47.80
11	52.45	52.74	52.82	49.32	51.20	51.04	49.90	50.82	50.88	48.64	50.27	47.79
12	52.50	52.76	52.88	49.64	51.14	50.96	50.00	50.86	50.90	48.64	50.24	47.84
13	52.57	52.84	52.92	49.50	51.14	50.94	50.00	50.91	50.87	48.68	50.22	47.92
14	52.62	52.78	52.79	49.46	51.28	50.95	49.98	50.94	50.84	48.72	50.21	47.96
15	52.57	52.70	52.60	49.77	51.22	50.88	50.08	50.96	50.81	48.83	50.26	47.96
16	52.52	52.63	52.82	49.90	51.05	50.88	50.20	51.00	50.76	48.93	50.31	48.02
17	52.55	52.58	52.86	50.04	50.90	50.86	50.24	51.04	50.72	48.98	50.30	48.14
18	52.55	52.66	52.72	50.16	51.04	50.90	50.26	51.07	50.57	49.03	50.28	48.24
19	52.45	52.72	52.74	50.18	51.13	50.86	50.32	51.12	50.58	49.05	50.32	48.34
20	52.78	52.66	52.64	50.26	51.05	50.74	50.34	51.13	50.67	49.10	50.37	48.44
21	52.82	52.71	52.42	50.33	50.92	50.72	50.40	51.14	50.69	49.16	50.32	48.54
22	52.76	52.79	52.08	50.44	51.11	50.74	50.52	51.19	50.68	49.24	50.30	48.68
23	52.67	52.81	51.81	50.33	51.28	50.70	50.66	51.20	50.70	49.30	50.32	48.82
24	52.72	52.70	51.65	50.38	51.25	50.58	50.63	51.18	50.70	49.34	50.31	48.86
25	52.70	52.72	51.46	50.44	51.37	50.42	50.48	51.12	50.75	49.42	50.21	48.82
26	52.64	52.83	51.17	50.57	51.50	50.28	50.38	51.10	51.16	49.46	50.07	48.80
27	52.68	52.86	50.92	50.78	51.38	50.26	50.38	51.10	50.96	50.00	49.92	48.90
28	52.75	52.82	50.78	50.83	51.40	50.16	50.46	51.10	50.37	49.98	49.77	49.03
29	52.77	52.84	50.68	50.88	---	49.94	50.58	51.09	50.12	50.01	49.65	49.06
30	52.85	52.83	50.60	50.84	---	49.72	50.68	51.04	49.98	50.11	49.50	49.10
31	52.94	---	50.21	50.74	---	49.58	---	50.99	---	50.14	49.34	---
MEAN	52.55	52.77	52.24	49.96	51.13	50.79	50.06	50.95	50.76	49.22	50.13	48.43

WTR YR 1982 MEAN 50.75 HIGH 47.79 LOW 52.94

LOWNDES COUNTY

304949083165301 Local number, 19E9.

LOCATION.--Lat 30°49'49", long 83°16'53", Hydrologic Unit 03110202, N. Oak Street, one block north of intersection with U.S. Highway 84, Valdosta, Ga.
Owner: City of Valdosta.

AQUIFER.--Principal artesian aquifer.

WELL CHARACTERISTICS.--Drilled unused municipal supply well, diameter 20 in. (50.8 cm), depth 342 ft (104.2 m), cased t[illegible]00 ft (61.0 m) open hole.

DATUM.--Altitude of land-surface datum is 217 ft (66 m), from topographic map.
Measuring point: Top of casing, 1.7 ft (0.56 m) above land-surface datum.

REMARKS.--Well pumped July 18, 1978; water-quality sample collected at conclusion of pumping. Borehole geophysical survey conducted April 11, 1963.

PERIOD OF RECORD.--February 1957 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 112.69 ft (34.350 m) below land-surface datum, March 9, 1964; lowest, 146.60 ft (44.684 m) below land-surface datum, July 18, 1981.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	143.79	143.37	138.01	132.76	129.99	127.13	129.22	127.16	129.66	131.70	129.28	132.54
2	144.08	143.58	138.18	132.54	129.84	127.22	129.04	126.75	130.28	131.83	129.17	131.98
3	144.14	144.41	137.31	132.36	130.22	128.11	128.74	127.10	130.45	132.40	129.73	131.74
4	144.57	143.53	136.71	132.34	129.79	127.78	128.66	127.35	130.37	131.28	130.05	132.04
5	144.80	141.12	136.48	132.43	129.29	126.90	128.65	128.03	130.83	131.07	129.81	131.37
6	145.12	140.29	135.80	132.26	129.14	127.20	128.40	131.30	130.67	132.32	131.25	130.67
7	145.30	139.21	135.83	132.19	128.84	127.20	129.04	131.52	131.08	132.86	132.39	130.78
8	144.95	139.00	136.29	132.12	128.72	127.56	128.74	130.59	131.55	131.70	132.53	132.00
9	144.34	139.01	136.55	131.83	128.43	127.48	128.16	128.01	132.50	131.40	132.98	131.33
10	144.59	138.60	136.29	132.17	129.12	128.12	128.13	128.33	132.74	132.07	132.73	130.82
11	143.96	138.31	136.35	133.55	128.28	128.09	127.69	128.83	133.04	131.37	131.14	131.05
12	144.29	137.97	136.25	134.50	128.28	127.86	127.88	129.51	133.09	131.13	130.34	130.44
13	144.06	137.39	136.22	133.98	128.10	128.01	127.69	129.54	132.78	131.34	130.12	130.64
14	144.61	137.52	136.05	132.87	128.02	127.83	128.05	129.51	133.18	132.23	130.39	130.87
15	144.55	136.77	135.44	132.50	127.95	127.99	127.91	129.92	135.03	131.83	129.79	131.47
16	144.70	137.02	135.07	131.48	127.62	128.00	127.73	129.98	136.21	131.71	130.17	131.11
17	144.92	136.69	134.80	130.71	128.15	128.73	127.91	130.16	134.62	131.70	129.87	131.02
18	144.85	137.95	134.73	130.58	128.20	128.50	127.76	130.61	133.94	131.71	130.12	131.15
19	145.18	137.39	134.73	130.67	127.29	128.16	128.00	130.73	133.35	131.99	129.83	130.55
20	145.16	136.90	134.80	130.71	127.01	128.83	128.00	130.11	132.75	133.13	129.60	130.49
21	145.30	137.07	134.63	130.55	126.60	128.16	128.75	130.06	133.40	133.91	129.88	130.21
22	145.50	137.13	134.51	130.26	126.76	128.35	128.44	130.73	133.13	131.77	129.96	130.90
23	145.42	137.42	134.37	129.97	127.16	128.24	128.18	130.24	132.98	131.19	129.92	130.75
24	145.11	137.32	134.31	129.74	127.59	128.49	128.22	130.21	132.72	131.16	129.79	130.70
25	144.27	137.93	134.04	129.80	126.97	128.29	127.60	130.24	132.09	130.89	130.88	130.65
26	144.10	137.12	133.81	129.83	126.99	128.78	127.79	130.69	132.61	131.10	130.16	130.59
27	143.41	137.51	133.65	130.61	126.78	128.73	127.39	130.11	131.05	130.79	130.44	130.68
28	143.38	138.04	133.64	130.44	126.67	128.12	128.08	130.11	131.15	131.03	131.06	131.17
29	143.35	137.88	133.64	130.37	---	128.15	127.52	130.50	131.19	130.53	130.79	131.98
30	143.50	138.00	133.42	130.41	---	128.42	127.17	129.85	131.86	130.37	130.98	131.76
31	143.46	---	133.03	129.90	---	129.37	---	129.45	---	130.11	131.35	---
MEAN	144.48	138.72	135.32	131.50	128.14	128.06	128.15	129.59	132.34	131.60	130.53	131.12

WTR YR 1982 MEAN 132.50 HIGH 126.60 LOW 145.50

MCINTOSH COUNTY

313826081152601 Local number, 35H13.

LOCATION.--Lat 31°38'26", long 81°15'26", Hydrologic Unit 03060204, 8.5 mi (13.6 km) east of U.S. Highway 17 at Harris Neck Wildlife Refuge.

Owner: U.S. Department of the Interior, Fish and Wildlife Service.

AQUIFER.--Principal artesian aquifer.

WELL CHARACTERISTICS.--Drilled unused supply well, diameter 10 in. (25.4 cm), depth 553 ft (162.4 m), cased to 376 ft (114.6 m), open hole.

DATUM.--Altitude of land-surface is 16.3 ft (4.97 m) National Geodetic Vertical Datum of 1929.

Measuring point: Floor of recorder shelter, 3.2 ft (0.98 m) above land-surface datum.

REMARKS.--Well pumped August 3, 1978; water-quality sample collected at conclusion of pumping. Borehole geophysical survey conducted June 16, 1976.

PERIOD OF RECORD.--September 1966 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 4.35 ft (1.326 m) below land-surface datum, October 4, 1966; lowest, 20.45 ft (6.233 m) below land-surface datum, December 19, 1981.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20.20	20.03	19.97	19.85	19.60	19.30	19.15	18.70	18.65	18.85	18.55	18.43
2	20.13	20.08	20.13	19.95	19.45	19.25	19.07	18.75	18.67	18.85	18.29	18.40
3	20.10	20.10	20.30	19.75	19.38	19.20	19.03	18.77	18.65	18.80	18.20	18.40
4	20.20	20.15	20.35	19.83	19.48	19.12	19.10	18.75	18.58	18.75	18.25	18.43
5	20.25	20.05	20.30	20.03	19.45	19.10	18.83	18.75	18.55	18.68	18.35	18.35
6	20.23	19.95	20.30	19.85	19.35	19.05	18.85	18.80	18.58	18.65	18.40	18.40
7	20.15	20.05	20.18	19.75	19.47	18.93	19.00	18.75	18.63	18.72	18.40	18.40
8	20.10	20.15	20.17	19.75	19.38	19.35	18.80	18.72	18.70	18.75	18.40	18.25
9	20.13	20.10	20.15	19.50	19.25	19.42	18.85	18.68	18.65	18.75	18.45	18.25
10	20.03	20.00	20.00	19.80	19.35	19.32	18.88	18.70	18.62	18.75	18.55	18.20
11	20.00	19.80	19.97	19.95	19.40	19.25	18.87	18.80	18.60	18.75	18.50	18.20
12	19.95	19.75	20.05	19.83	19.35	19.20	18.92	18.80	18.55	18.78	18.45	18.28
13	19.85	19.75	20.05	19.45	19.35	19.20	18.95	18.83	18.65	18.75	18.33	18.25
14	19.85	19.82	19.90	19.45	19.48	19.30	18.93	18.90	18.70	18.70	18.25	18.18
15	19.88	19.80	19.90	19.83	19.50	19.25	18.90	18.92	18.65	18.65	18.22	18.05
16	19.90	19.82	20.30	19.70	19.35	19.23	18.90	18.85	18.65	18.60	18.28	18.03
17	20.05	19.95	20.25	19.82	19.18	19.28	18.98	18.90	18.65	18.50	18.25	18.05
18	20.05	20.00	20.38	19.80	19.23	19.30	18.95	18.90	18.55	18.50	18.23	18.03
19	20.17	20.05	20.45	19.75	19.27	19.25	18.85	18.90	18.52	18.45	18.35	18.10
20	20.28	20.13	20.38	19.75	19.25	19.22	18.80	18.78	18.50	18.48	18.50	18.13
21	20.20	20.25	20.30	19.65	19.05	19.15	18.85	18.70	18.55	18.45	18.55	18.10
22	20.18	20.20	20.23	19.60	19.08	19.15	18.80	18.70	18.58	18.48	18.50	18.18
23	20.10	20.15	20.30	19.45	19.32	18.97	18.75	18.70	18.60	18.55	18.48	18.12
24	20.05	20.00	20.15	19.55	19.30	18.83	18.75	18.65	18.62	18.55	18.55	18.03
25	19.95	20.10	19.97	19.50	19.23	18.83	18.55	18.63	18.60	18.60	18.52	17.90
26	19.93	20.15	19.97	19.63	19.10	18.98	18.60	18.63	18.70	18.60	18.48	17.80
27	20.02	20.20	19.90	19.60	19.15	19.07	18.55	18.60	18.85	18.55	18.45	17.95
28	20.12	20.25	20.00	19.63	19.25	19.03	18.60	18.70	18.90	18.55	18.50	17.93
29	20.04	20.23	20.00	19.67	---	19.00	18.55	18.78	18.90	18.65	18.43	17.80
30	20.03	20.10	19.90	19.55	---	19.15	18.57	18.80	18.85	18.69	18.50	17.70
31	20.03	---	19.60	19.40	---	19.15	---	18.75	---	18.62	18.50	---
MEAN	20.07	20.04	20.12	19.70	19.32	19.16	18.84	18.76	18.65	18.65	18.41	18.14

WTR YR 1982 MEAN 19.16 HIGH 17.70 LOW 20.45

MILLER COUNTY

310651084404501 Local number, 8G1.
LOCATION.--Lat 31°06'51", long 84°40'45", Hydrologic Unit 03130010, 1 mi (1.6 km) northeast of Boykin, Ga.
Owner: Jack Fleet.
AQUIFER.--Principal artesian aquifer.
WELL CHARACTERISTICS.--Drilled unused irrigation well, diameter 12 in. (30.5 cm), depth 255 ft (77.7 m), cased to 130 ft (39.6 m), open hole.
DATUM.--Altitude of land-surface datum is 150 ft (46 m), from topographic map.
Measuring point: Top front edge of recorder shelter, 3.0 ft (0.91 m) above land-surface datum.
REMARKS.--None.
PERIOD OF RECORD.--February 1977 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 14.20 ft (4.328 m) below land-surface datum, March 17, 1978; lowest, 43.88 ft (13.375 m) below land-surface datum, July 17, 1981.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41.72	42.44	42.82	42.66	31.90	25.43	30.72	26.28	31.40	35.00	32.55	26.05
2	41.74	42.44	42.85	42.30	32.15	25.76	30.50	26.12	31.76	35.08	32.28	26.60
3	41.76	42.43	42.88	41.75	32.23	26.02	30.53	26.13	31.85	35.10	32.12	27.20
4	41.75	42.43	42.90	41.15	31.85	26.33	30.68	26.28	31.87	35.08	32.05	27.84
5	41.74	42.42	42.92	40.48	30.95	26.74	30.55	26.62	32.53	35.10	32.13	27.80
6	41.72	42.42	42.94	39.65	30.07	27.00	30.72	27.07	33.15	35.18	32.12	27.75
7	41.72	42.43	42.95	38.68	29.24	27.40	30.85	27.40	33.16	35.24	32.12	27.95
8	41.78	42.44	42.97	35.78	28.35	28.03	30.64	27.23	33.68	35.27	32.13	28.70
9	41.87	42.46	42.98	32.07	27.68	28.22	30.62	27.37	33.57	35.33	32.05	29.15
10	41.92	42.48	43.00	30.25	27.56	28.23	30.60	27.55	34.38	35.35	31.28	29.50
11	41.94	42.48	43.02	29.68	27.55	28.28	30.50	27.74	35.91	35.38	30.25	29.76
12	41.97	42.50	43.03	29.64	27.45	28.40	30.48	27.98	36.70	35.36	29.56	29.90
13	42.05	42.51	43.04	29.73	27.27	28.60	30.34	28.22	36.07	35.40	29.11	30.32
14	42.15	42.52	43.05	30.12	26.88	28.74	30.32	28.75	35.30	35.38	28.85	30.70
15	42.18	42.53	43.06	29.93	26.37	28.88	30.37	29.10	35.80	35.45	28.78	30.48
16	42.18	42.55	43.08	28.92	25.83	29.05	30.70	29.12	36.55	35.48	28.80	30.10
17	42.19	42.57	43.10	27.90	25.11	29.22	31.33	29.38	36.56	35.50	28.82	29.92
18	42.20	42.59	43.10	27.18	24.40	29.45	31.10	29.70	35.83	35.52	27.90	29.92
19	42.24	42.60	43.10	27.00	23.84	29.58	30.92	30.05	35.40	35.50	26.15	30.12
20	42.28	42.62	43.11	27.20	23.25	29.67	30.96	30.18	35.34	35.45	24.30	30.24
21	42.31	42.65	43.11	27.54	22.84	29.88	31.04	30.15	35.33	35.40	22.78	30.30
22	42.33	42.68	43.10	27.96	22.98	30.10	30.97	30.15	35.33	35.33	22.08	30.05
23	42.36	42.70	43.10	28.34	23.22	30.96	30.96	30.16	35.50	35.28	21.97	29.88
24	42.38	42.68	43.10	28.75	23.46	31.50	30.85	30.22	35.53	35.18	22.14	29.85
25	42.42	42.70	43.08	29.15	23.85	30.90	30.62	30.24	35.35	34.98	22.45	29.68
26	42.44	42.72	43.07	29.70	24.25	30.73	29.86	30.34	35.35	34.70	22.87	29.50
27	42.42	42.74	43.05	30.22	24.57	30.47	28.73	30.55	35.35	34.41	23.35	29.25
28	42.40	42.76	43.03	30.56	25.00	30.44	27.77	30.65	35.22	34.10	23.87	29.40
29	42.40	42.79	43.00	30.90	---	30.36	27.00	31.48	35.07	33.75	24.45	29.94
30	42.42	42.80	42.95	31.13	---	30.30	26.57	31.72	34.98	33.35	25.00	29.72
31	42.44	---	42.80	31.42	---	30.80	---	31.25	---	32.93	25.54	---
MEAN	42.11	42.57	43.01	32.19	26.79	28.89	30.26	28.88	34.66	35.02	27.74	29.25

WTR YR 1982 MEAN 33.49 HIGH 21.97 LOW 43.11

RANDOLPH COUNTY

314602084473701 Local number, 7N1.

LOCATION.--Lat 31°46'02", long 84°47'37", Hydrologic Unit 03110204, south of intersection of College and Andrew Streets, near electric substation.

Owner: City of Cuthbert.

AQUIFER.--Clayton Limestone.

WELL CHARACTERISTICS.--Drilled unused municipal well, diameter 8 in. (20.3 cm), depth 372 ft (113.4 m), casing depth unknown.

DATUM.--Altitude of land-surface datum is 460 ft (140 m), from topographic map.

Measuring point: Floor of recorder shelter, 3.30 ft (1.006 m) above land-surface datum.

REMARKS.--Well pumped and sounded June 22, 1978, to a depth of 372 ft (113.4 m); water-quality sample collected at conclusion of pumping. Well near city wells. Water levels for periods of missing recorder record, March 18-31, May 9-11, May 21 to June 6, and Aug. 1-18, were estimated.

PERIOD OF RECORD.--January 1965 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 132.0 ft (40.23 m) below land-surface datum, December 10, 1967; lowest, 154.80 ft (47.183 m) below land-surface datum, June 7, 1982.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	153.54	148.76	148.24	148.08	147.69	146.22	147.65	146.16	152.02	152.07	148.57	150.75
2	153.10	149.38	148.41	146.28	146.60	146.69	147.27	145.98	152.43	151.52	147.77	151.35
3	153.12	149.74	148.46	146.87	147.32	146.35	146.90	147.33	153.24	152.11	147.66	150.44
4	152.40	149.50	148.17	146.46	148.81	146.27	145.91	147.29	153.44	151.91	147.75	150.64
5	153.53	149.01	148.02	146.86	148.66	146.37	146.57	146.94	153.76	152.60	148.25	150.30
6	153.29	148.87	148.32	147.18	146.46	146.07	146.68	147.12	154.17	153.35	148.13	151.09
7	153.35	148.74	148.39	146.86	146.70	146.27	146.27	147.58	154.80	152.16	148.30	151.44
8	151.94	148.69	148.58	147.10	146.31	146.14	145.81	147.69	154.43	152.56	148.59	151.92
9	151.34	148.95	148.30	147.15	146.06	146.29	146.70	147.28	154.71	151.42	148.77	151.68
10	151.24	148.83	148.98	147.96	146.91	146.33	146.37	148.13	154.20	151.48	148.83	151.30
11	150.68	149.32	148.88	150.01	146.79	145.78	146.20	149.18	154.61	150.29	148.91	151.52
12	150.99	148.88	148.58	151.75	146.26	145.97	147.31	150.09	154.09	151.15	148.59	151.77
13	151.08	149.08	148.23	153.22	146.27	145.45	147.57	149.82	153.16	151.84	148.24	151.97
14	150.93	148.58	148.21	152.00	146.00	145.48	145.98	150.84	154.53	151.52	147.95	152.05
15	151.02	148.43	147.91	151.71	146.24	145.70	146.06	151.08	154.34	151.05	148.27	151.52
16	150.85	148.35	147.75	149.55	146.05	146.06	146.23	149.67	154.65	150.18	148.49	151.87
17	151.61	148.82	147.72	147.85	146.17	145.72	145.67	150.25	153.43	150.47	148.34	151.51
18	149.74	149.11	148.85	149.37	146.14	146.01	145.81	151.22	152.52	151.25	148.77	151.12
19	150.05	148.45	147.71	148.48	146.36	146.31	146.09	150.35	153.74	150.90	148.54	150.52
20	150.13	148.44	149.13	147.60	146.64	145.83	146.41	150.87	153.60	151.03	148.28	151.81
21	150.55	148.33	149.74	147.36	145.79	146.54	147.53	150.90	152.89	150.88	148.54	151.21
22	150.57	148.50	149.76	147.07	145.90	146.77	145.87	151.84	153.65	150.92	148.22	150.59
23	149.97	148.52	148.87	146.81	146.32	146.73	145.19	152.34	152.57	150.04	148.97	150.77
24	149.46	149.18	147.83	146.83	146.52	147.00	145.74	152.04	152.27	149.80	148.70	151.07
25	149.17	149.94	148.33	149.03	146.15	146.29	146.61	151.40	151.98	150.68	149.71	150.84
26	149.29	148.85	147.15	148.24	146.08	146.91	145.84	151.09	151.75	150.35	150.32	150.18
27	149.49	148.13	146.90	148.09	146.08	147.21	145.68	151.11	151.62	150.11	149.48	150.46
28	149.60	148.58	147.11	147.53	145.79	147.03	145.71	151.25	151.71	150.16	149.42	150.76
29	149.10	148.58	147.13	147.68	---	147.10	146.01	151.17	151.52	150.02	149.05	150.76
30	149.12	147.98	147.20	146.83	---	147.66	145.55	151.31	151.87	149.55	149.88	150.46
31	149.03	---	147.27	146.74	---	147.56	---	151.62	---	149.32	150.22	---
MEAN	150.94	148.82	148.20	148.21	146.54	146.39	146.31	149.71	153.26	151.05	148.69	151.12

WTR YR 1982 MEAN 149.12 HIGH 145.19 LOW 154.80

SPALDING COUNTY

331507084171801 Local number, 11AA1.

LOCATION.--Lat 33°15'07", long 84°17'18", Hydrologic Unit 03070103, University of Georgia Experiment Station, Experiment, Ga.
Owner: University of Georgia.

AQUIFER.--Residuum.

WELL CHARACTERISTICS.--Dug unused water-table well, size 4 x 4 ft (1.2 x 1.2 m), depth 30 ft (9.1 m), open hole.

DATUM.--Altitude of land-surface datum is 960 ft (293 m), from topographic map.
Measuring point: Hole in floor of recorder shelter, 3.1 ft (0.94 m) above land-surface datum.

REMARKS.--None.

PERIOD OF RECORD.--October 1943 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 8.26 ft (2.518 m) below land-surface datum, March 19, 1948; lowest, 21.78 ft (6.639 m) below land-surface datum, December 13, 1981.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20.69	21.29	21.68	20.41	16.93	14.73	14.60	13.39	14.52	16.15	16.86	18.12
2	20.72	21.30	21.68	20.22	16.84	14.63	14.61	13.35	14.60	16.21	16.88	18.16
3	20.76	21.32	21.69	20.00	16.55	14.59	14.62	13.34	14.64	16.22	16.92	18.21
4	20.79	21.33	21.69	19.72	16.44	14.58	14.63	13.36	14.67	16.27	16.96	18.27
5	20.81	21.34	21.70	19.48	16.22	14.60	14.64	13.39	14.71	16.34	17.00	18.34
6	20.84	21.35	21.70	19.17	16.03	14.56	14.68	13.40	14.80	16.41	17.04	18.38
7	20.86	21.37	21.70	18.93	15.89	14.60	14.72	13.37	14.85	16.45	17.08	18.42
8	20.89	21.39	21.72	18.73	15.72	14.73	14.76	13.39	14.88	16.48	17.10	18.47
9	20.93	21.40	21.73	18.50	15.54	14.65	14.80	13.47	14.93	16.51	17.14	18.52
10	20.95	21.41	21.74	18.39	15.55	14.52	14.84	13.49	14.98	16.53	17.19	18.56
11	20.97	21.42	21.75	18.29	15.51	14.47	14.88	13.52	15.05	16.57	17.22	18.60
12	21.00	21.44	21.77	18.16	15.42	14.46	14.93	13.58	15.11	16.61	17.25	18.65
13	21.02	21.45	21.78	18.00	15.39	14.49	14.95	13.61	15.15	16.65	17.28	18.69
14	21.03	21.46	21.77	17.93	15.37	14.50	14.97	13.65	15.21	16.69	17.32	18.71
15	21.05	21.47	21.76	17.93	15.29	14.48	14.99	13.71	15.25	16.72	17.37	18.74
16	21.07	21.48	21.75	17.84	15.19	14.48	15.01	13.76	15.29	16.73	17.41	18.78
17	21.09	21.50	21.68	17.79	15.07	14.42	15.03	13.80	15.35	16.67	17.44	18.82
18	21.10	21.52	21.66	17.66	15.08	14.43	15.05	13.85	15.37	16.58	17.48	18.86
19	21.14	21.53	21.65	17.56	15.00	14.35	15.07	13.91	15.46	16.53	17.55	18.90
20	21.16	21.55	21.64	17.50	14.86	14.32	15.05	13.95	15.53	16.52	17.59	18.95
21	21.18	21.58	21.62	17.42	14.77	14.33	15.02	13.99	15.59	16.54	17.60	19.00
22	21.20	21.59	21.60	17.39	14.85	14.37	15.00	14.06	15.64	16.56	17.65	19.06
23	21.21	21.60	21.60	17.26	14.84	14.34	14.97	14.12	15.72	16.58	17.71	19.11
24	21.24	21.61	21.61	17.24	14.79	14.34	14.95	14.15	15.77	16.62	17.75	19.14
25	21.25	21.62	21.50	17.16	14.83	14.37	14.92	14.18	15.84	16.67	17.78	19.17
26	21.24	21.63	21.37	17.15	14.88	14.44	14.58	14.23	15.89	16.69	17.85	19.21
27	21.25	21.64	21.18	17.09	14.76	14.51	13.90	14.31	15.94	16.70	17.88	19.28
28	21.25	21.66	21.04	17.03	14.77	14.56	13.56	14.37	15.96	16.71	17.95	19.34
29	21.25	21.68	20.93	16.99	---	14.57	13.49	14.42	16.00	16.76	18.01	19.38
30	21.27	21.68	20.81	16.91	---	14.58	13.44	14.47	16.07	16.82	18.06	19.42
31	21.28	---	20.58	16.83	---	14.59	---	14.50	---	16.84	18.09	---
MEAN	21.05	21.49	21.55	18.09	15.44	14.50	14.69	13.81	15.29	16.56	17.43	18.78

WTR YR 1982 MEAN 17.40 HIGH 13.34 LOW 21.78

WAYNE COUNTY

313055081521901 Local number, 31L1.

LOCATION.--Lat 31°30'55", long 81°52'19", Hydrologic Unit 03070106, about 6 mi (9.6 km) south of Jesup near Penholoway Creek on Walker Creek.

Owner: Brunswick Pulp and Paper, Justice Mears 2.

AQUIFER.--Principal artesian aquifer.

WELL CHARACTERISTICS.--Drilled unused oil test well, diameter 6 in. (15.2 cm), depth 691 ft (210.6 m), cased to 587 ft (178.9 m), open hole.

DATUM.--Altitude of land-surface datum is 55 ft (17 m), from topographic map.

Measuring point: Top of 6 in. (15.2 cm) casing at land-surface datum.

REMARKS.--Well pumped and water quality sampled, August 2, 1978.

PERIOD OF RECORD.--February 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 15.30 ft (4.663 m) below land-surface datum, December 16, 1977; lowest, 29.23 ft (8.909 m) below land-surface datum, June 29, 1981.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27.75	28.46	27.96	21.64	26.47	26.67	23.16	25.84	25.62	23.14	25.62	20.94
2	27.70	28.40	27.94	21.54	26.48	26.40	23.64	25.84	25.72	22.76	25.59	20.75
3	27.90	28.40	28.04	21.32	26.40	26.13	23.96	25.71	25.84	22.36	25.58	20.59
4	28.01	28.38	28.17	21.18	26.52	25.89	24.24	25.74	25.90	21.96	25.60	20.52
5	28.06	28.26	28.29	21.70	26.56	25.74	24.30	25.82	25.84	21.68	25.68	20.48
6	28.02	28.10	28.30	22.38	26.56	25.64	24.51	25.89	25.88	21.95	25.67	20.41
7	27.95	28.16	28.22	22.98	26.68	25.52	24.80	25.83	25.92	22.50	25.64	20.31
8	28.00	28.30	28.10	23.49	26.66	25.80	24.77	25.73	25.84	22.97	25.58	20.44
9	28.10	28.35	28.13	23.88	26.46	25.81	24.83	25.84	25.80	23.22	25.58	20.86
10	28.13	28.28	28.12	24.32	26.44	25.70	25.06	25.97	25.74	23.37	25.57	21.27
11	28.20	28.20	28.14	24.74	26.56	25.58	25.10	26.08	25.78	23.55	25.59	21.61
12	28.25	28.22	28.22	24.96	26.50	25.50	25.20	26.15	25.80	23.76	25.57	21.92
13	28.32	28.22	28.28	24.84	26.52	25.48	25.22	26.25	25.82	24.01	25.60	22.18
14	28.30	28.15	28.14	24.82	26.66	25.50	25.24	26.30	25.84	24.27	25.60	22.47
15	28.22	28.06	27.99	25.19	26.58	25.44	24.89	26.38	25.90	24.44	25.61	22.80
16	28.17	27.98	28.05	25.37	26.40	25.44	25.50	26.42	25.96	24.64	25.64	23.12
17	28.22	27.97	27.40	25.54	26.22	25.40	25.58	26.46	25.91	24.74	25.50	23.44
18	28.16	28.06	26.66	25.69	26.33	25.44	25.60	26.41	25.70	24.82	25.44	23.70
19	28.33	28.12	26.12	25.76	26.40	25.40	25.63	26.51	25.65	24.84	25.48	23.85
20	28.41	28.02	25.61	25.86	26.31	25.25	25.59	26.54	25.69	24.90	25.58	23.98
21	28.46	28.12	25.06	25.80	26.17	25.18	25.64	26.54	25.69	24.98	25.52	24.09
22	28.38	28.14	24.50	25.60	26.40	24.92	25.74	26.60	25.68	25.02	25.45	24.22
23	28.31	28.18	24.09	25.64	26.58	24.24	25.86	26.62	25.64	25.10	25.38	24.36
24	28.34	28.08	23.80	25.70	26.54	23.53	25.76	26.54	25.61	25.22	24.95	24.40
25	28.31	28.20	23.50	25.89	26.65	22.94	25.66	26.30	25.62	25.34	24.14	24.36
26	28.26	28.24	23.18	26.10	26.78	22.53	25.56	26.15	25.51	25.44	23.39	24.28
27	28.34	28.22	22.87	26.34	26.66	22.28	25.54	26.00	25.42	25.52	22.80	24.41
28	28.36	28.16	22.68	26.42	26.68	22.02	25.66	25.96	24.97	25.57	22.31	24.55
29	28.39	28.16	22.46	26.47	---	21.76	25.75	25.92	24.24	25.63	21.94	24.58
30	28.46	28.08	22.24	26.43	---	21.96	25.86	25.82	23.57	25.70	21.60	24.62
31	28.50	---	21.88	26.30	---	22.58	---	25.70	---	25.64	21.29	---
MEAN	28.20	28.19	26.20	24.65	26.51	24.76	25.13	26.12	25.60	24.16	24.85	22.65

WTR YR 1982 MEAN 25.58 HIGH 20.31 LOW 28.50

WAYNE COUNTY

313701081543501 Local number, 30L3.

LOCATION.--Lat 31°37'01", long 81°54'35", Hydrologic Unit 03070106, about 0.5 mi (0.8 km) west of Jesup city limits near intersection of Highway 341 and Sunset Drive.

Owner: Homer Johnson.

AQUIFER.--Principal artesian aquifer.

WELL CHARACTERISTICS.--Drilled unused domestic well, diameter 4 in. (10.1 cm), depth 584 ft (178.0 m), cased to 472 ft (143.9 m), open hole.

DATUM.--Altitude of land-surface datum is 107 ft (33 m), from topographic map.

Measuring point: Floor of recorder shelter, 2.88 ft (0.878 m) above land-surface datum.

REMARKS.--Borehole geophysical survey conducted August 19, 1963.

PERIOD OF RECORD.--January 1964 to March 1967. February 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 59.98 ft (18.282 m) below land-surface datum, April 19, 1964; lowest 85.27 ft (25.990 m) below land-surface datum, June 29, 1981.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	82.90	83.96	83.50	74.75	81.94	82.16	78.18	81.42	80.74	76.80	81.00	74.26
2	82.95	83.93	83.47	74.64	81.92	81.63	78.90	81.40	80.97	76.30	81.04	74.07
3	83.00	83.95	83.60	74.43	81.80	81.15	79.31	81.21	81.12	75.83	81.10	74.01
4	83.20	83.94	83.76	74.30	81.96	80.90	79.61	81.27	81.20	75.38	81.14	73.91
5	83.45	83.77	83.87	75.36	82.01	80.74	79.72	81.40	81.17	75.10	81.22	73.70
6	83.40	83.58	83.86	76.62	82.06	80.66	79.92	81.50	81.12	75.44	81.22	73.57
7	83.42	83.64	83.80	77.54	82.24	80.51	80.24	81.42	81.10	76.06	81.08	73.44
8	83.50	83.80	83.68	78.27	82.24	80.75	80.24	81.32	80.97	76.61	80.99	74.00
9	83.55	83.87	83.70	78.89	82.00	80.80	80.29	81.48	80.80	76.93	81.01	74.98
10	83.60	83.83	83.69	79.47	81.88	80.75	80.55	81.61	80.68	77.15	80.99	75.70
11	83.62	83.72	83.70	79.98	82.01	80.65	80.59	81.70	80.66	77.40	81.02	76.18
12	83.68	83.72	83.82	80.28	82.02	80.56	80.70	81.82	80.73	77.69	81.11	76.56
13	83.70	83.61	83.89	80.14	82.06	80.60	80.74	81.94	80.76	78.01	81.24	77.00
14	83.65	83.60	83.78	80.10	82.20	80.63	80.82	82.04	80.80	78.34	81.20	77.62
15	83.60	83.52	83.57	80.46	82.15	80.58	80.98	82.04	80.96	78.58	81.15	78.19
16	83.62	83.44	83.28	80.68	81.94	80.57	81.10	82.10	81.12	78.86	81.06	78.70
17	83.65	83.49	82.01	80.86	81.70	80.52	81.20	82.09	81.02	79.03	80.96	79.18
18	83.67	83.63	80.69	81.00	81.78	80.55	81.26	82.07	80.68	79.18	80.89	79.51
19	83.78	83.66	79.90	81.14	81.87	80.51	81.24	82.17	80.58	79.27	81.48	79.68
20	83.90	83.53	79.25	81.24	81.78	80.33	81.14	82.15	80.64	79.41	81.10	79.79
21	83.95	83.57	78.58	81.02	81.68	80.21	81.20	82.18	80.62	79.56	81.05	79.91
22	83.91	83.64	77.96	80.88	81.94	79.52	81.27	82.25	80.58	79.67	80.87	80.02
23	83.86	83.74	77.48	80.69	82.16	78.38	81.29	82.28	80.56	79.82	80.57	80.08
24	83.88	83.66	77.14	80.84	82.16	77.42	81.28	82.11	80.54	80.02	79.80	80.09
25	83.84	83.72	76.78	81.20	82.52	76.67	81.23	81.70	80.54	80.21	78.75	80.07
26	83.80	83.79	76.44	81.48	82.42	76.12	81.12	81.33	80.16	80.38	77.76	79.97
27	83.88	83.75	76.13	81.76	82.32	75.77	81.16	81.17	79.81	80.53	76.93	80.03
28	83.94	83.68	75.88	81.88	82.30	75.44	81.24	81.14	79.09	80.66	76.21	80.22
29	83.98	83.63	75.60	81.96	---	75.14	81.33	81.07	78.09	80.79	75.60	80.20
30	84.00	83.59	75.34	81.94	---	75.75	81.39	80.90	77.46	80.93	75.02	80.25
31	84.02	---	75.02	81.80	---	77.10	---	80.74	---	80.94	74.47	---
MEAN	83.64	83.70	80.75	79.54	82.04	79.45	80.64	81.65	80.51	78.42	79.97	77.50

WTR YR 1982 MEAN 80.64 HIGH 73.44 LOW 84.02

WORTH COUNTY

313146083491601 Local number, 15L20.

LOCATION.--Lat 31°31'46", long 83°49'16", Hydrologic Unit 03110204, near water tank, behind VFW on U.S. Highway 82 east, Sylvester, Ga.

Owner: City of Sylvester.

AQUIFER.--Principal artesian aquifer.

WELL CHARACTERISTICS.--Drilled unused municipal well, diameter 18 in. (45.7 cm), depth 450 ft (137.2 m), cased to 212 ft (64.6 m), open hole.

DATUM.--Altitude of land-surface datum is 433 ft (132 m), from topographic map.

Measuring point: Floor of recorder shelter, 2.90 ft (0.884 m) above land-surface datum.

REMARKS.--Well pumped and sounded July 19, 1978. Borehole geophysical survey conducted June 5, 1975.

PERIOD OF RECORD.--May 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 191.50 ft (58.369 m) below land-surface datum, May 17, 1973; lowest, 201.59 ft (61.44 m) below land-surface datum, July 31, 1981.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	199.61	199.42	199.11	199.14	199.13	198.75	198.51	198.24	198.41	198.61	198.55	198.65
2	199.55	199.47	199.17	199.25	199.09	198.65	198.57	198.21	198.47	198.71	198.56	198.58
3	199.50	199.40	199.34	199.15	198.88	198.47	198.36	198.19	198.51	198.70	198.55	198.57
4	199.43	199.37	199.36	199.07	199.01	198.35	198.27	198.20	198.53	198.63	198.59	198.62
5	199.41	199.35	199.48	199.29	199.07	198.32	198.20	198.27	198.48	198.62	198.63	198.72
6	199.42	199.33	199.47	199.19	199.05	198.20	198.16	198.31	198.55	198.69	198.66	198.79
7	199.44	199.42	199.36	199.15	199.12	198.22	198.39	198.24	198.59	198.72	198.66	198.78
8	199.50	199.61	199.26	199.20	199.04	198.53	198.14	198.16	198.59	198.71	198.62	198.76
9	199.51	199.73	199.33	199.06	198.79	198.65	197.93	198.22	198.58	198.66	198.61	198.76
10	199.52	199.68	199.29	199.15	198.87	198.56	197.86	198.25	198.57	198.63	198.63	198.71
11	199.53	199.65	199.30	199.30	198.94	198.48	197.76	198.28	198.61	198.62	198.63	198.69
12	199.58	199.73	199.33	199.22	198.92	198.40	197.89	198.31	198.68	198.61	198.58	198.81
13	199.60	199.75	199.36	198.92	198.92	198.42	198.06	198.37	198.71	198.62	198.51	198.90
14	199.53	199.63	199.15	198.85	199.01	198.42	198.07	198.39	198.77	198.64	198.48	198.88
15	199.43	199.49	199.12	199.21	198.91	198.39	198.17	198.43	198.75	198.72	198.50	198.76
16	199.40	199.40	199.45	199.26	198.70	198.38	198.27	198.45	198.72	198.75	198.52	198.69
17	199.35	199.42	199.39	199.40	198.47	198.38	198.28	198.46	198.67	198.71	198.48	198.71
18	199.38	199.47	199.34	199.37	198.64	198.38	198.19	198.48	198.53	198.64	198.44	198.68
19	199.40	199.43	199.52	199.29	198.76	198.44	198.05	198.54	198.58	198.60	198.51	198.63
20	199.41	199.38	199.57	199.30	198.68	198.34	198.05	198.56	198.60	198.58	198.57	198.63
21	199.42	199.51	199.44	199.24	198.48	198.28	198.08	198.51	198.63	198.59	198.50	198.65
22	199.45	199.50	199.28	199.28	198.62	198.24	198.03	198.47	198.62	198.59	198.46	198.73
23	199.52	199.47	199.25	199.10	198.77	198.30	198.02	198.43	198.63	198.58	198.50	198.80
24	199.50	199.31	199.36	199.11	198.73	198.26	198.14	198.40	198.62	198.63	198.52	198.74
25	199.52	199.44	199.24	199.10	198.72	198.17	198.10	198.38	198.66	198.75	198.47	198.60
26	199.55	199.46	199.19	199.15	198.85	198.18	197.95	198.39	198.68	198.72	198.47	198.51
27	199.58	199.42	199.08	199.30	198.68	198.28	197.96	198.44	198.68	198.62	198.47	198.62
28	199.43	199.43	199.16	199.29	198.72	198.49	198.04	198.45	198.62	198.56	198.49	198.72
29	199.40	199.45	199.30	199.30	---	198.52	198.14	198.44	198.56	198.56	198.59	198.77
30	199.38	199.28	199.43	199.18	---	198.42	198.21	198.42	198.55	198.62	198.70	198.78
31	199.40	---	199.09	198.95	---	198.35	---	198.42	---	198.61	198.71	---
MEAN	199.47	199.48	199.31	199.19	198.84	198.39	198.13	198.36	198.61	198.65	198.55	198.71

WTR YR 1982 MEAN 198.81 HIGH 197.76 LOW 199.75

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FACTORS FOR CONVERTING INCH-POUND UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the inch-pound units published herein to the International System of Units (SI). This report contains both the inch-pound and SI unit equivalents in the station manuscript descriptions.

Multiply inch-pound units	By	To obtain SI units
	Length	
inches (in)	$2.54\text{x}10^{1}$	millimeters (mm)
	$2.54\text{x}10^{-2}$	meters (m)
feet (ft)	$3.048\text{x}10^{-1}$	meters (m)
miles (mi)	$1.609\text{x}10^{0}$	kilometers (km)
	Area	
acres	$4.047\text{x}10^{3}$	square meters (m^2)
	$4.047\text{x}10^{-1}$	square hectometers (hm^2)
	$4.047\text{x}10^{-3}$	square kilometers (km^2)
square miles (mi^2)	$2.590\text{x}10^{0}$	square kilometers (km^2)
	Volume	
gallons (gal)	$3.785\text{x}10^{0}$	liters (L)
	$3.785\text{x}10^{0}$	cubic decimeters (dm^3)
	$3.785\text{x}10^{-3}$	cubic meters (m^3)
million gallons	$3.785\text{x}10^{3}$	cubic meters (m^3)
	$3.785\text{x}10^{-3}$	cubic hectometers (hm^3)
cubic feet (ft^3)	$2.832\text{x}10^{1}$	cubic decimeters (dm^3)
	$2.832\text{x}10^{-2}$	cubic meters (m^3)
cfs-days	$2.447\text{x}10^{3}$	cubic meters (m^3)
	$2.447\text{x}10^{-3}$	cubic hectometers (hm^3)
acre-feet (acre-ft)	$1.233\text{x}10^{3}$	cubic meters (m^3)
	$1.233\text{x}10^{-3}$	cubic hectometers (hm^3)
	$1.233\text{x}10^{-6}$	cubic kilometers (km^3)
	Flow	
cubic feet per second (ft^3/s)	$2.832\text{x}10^{1}$	liters per second (L/s)
	$2.832\text{x}10^{1}$	cubic decimeters per second (dm^3/s)
	$2.832\text{x}10^{-2}$	cubic meters per second (m^3/s)
gallons per minute (gal/min)	$6.309\text{x}10^{-2}$	liters per second (L/s)
	$6.309\text{x}10^{-2}$	cubic decimeters per second (dm^3/s)
	$6.309\text{x}10^{-5}$	cubic meters per second (m^3/s)
million gallons per day	$4.381\text{x}10^{1}$	cubic decimeters per second (dm^3/s)
	$4.381\text{x}10^{-2}$	cubic meters per second (m^3/s)
	Mass	
tons (short)	$9.072\text{x}10^{-1}$	megagrams (Mg) or metric tons